

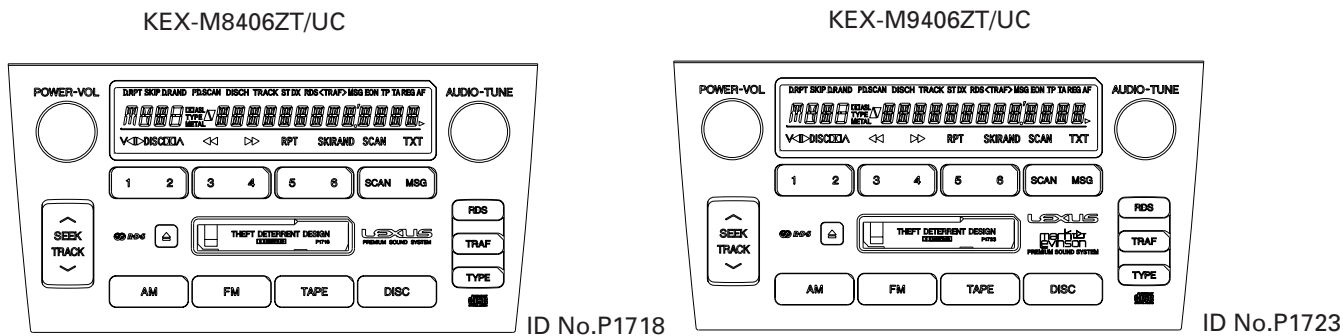
# ***Service Manual***

***Pioneer***  
**TOYOTA**

ORDER NO.  
**CRT2528**

# **LEXUS GS430** **AUDIO SYSTEM** **HEAD UNIT**

| VEHICLE     | DESTINATION    | PRODUCED AFTER | TOYOTA PART No. | ID No. | PIONEER MODEL No. |
|-------------|----------------|----------------|-----------------|--------|-------------------|
| LEXUS GS430 | U.S.A., CANADA | August 2000    | 86120-3A521     | P1718  | KEX-M8406ZT/UC    |
| LEXUS GS430 | U.S.A., CANADA | August 2000    | 86120-3A521     | P1718  | KEX-M8406ZT-91/UC |
| LEXUS GS430 | U.S.A., CANADA | August 2000    | 86120-3A750     | P1723  | KEX-M9406ZT/UC    |
| LEXUS GS430 | U.S.A., CANADA | August 2000    | 86120-3A750     | P1723  | KEX-M9406ZT-91/UC |



● This service manual should be used together with the following manual(s):

| Model  | Order No. | Mech. Module | Remarks                                |
|--------|-----------|--------------|--|
| CX-631 | CRT1640   | 2L           | Cassette Mech. Module:Mech.Description |

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.  
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- These models do not provide the test mode for CD changers.
- KEX-M8406ZT/UC and KEX-M9406ZT/UC have adopted AVC-LAN.

● Supplementary model is identical to the original except for the addition of following items.

| Description      | Part No.          |                   |
|------------------|-------------------|-------------------|
|                  | KEX-M8406ZT-91/UC | KEX-M9406ZT-91/UC |
| Polyethylene Bag | CEG1026           | CEG1026           |
| Carton           | CHA2025           | CHA2025           |
| Contain Box      | CHL4166           | CHL4167           |
| Protector        | CHP2331           | CHP2331           |

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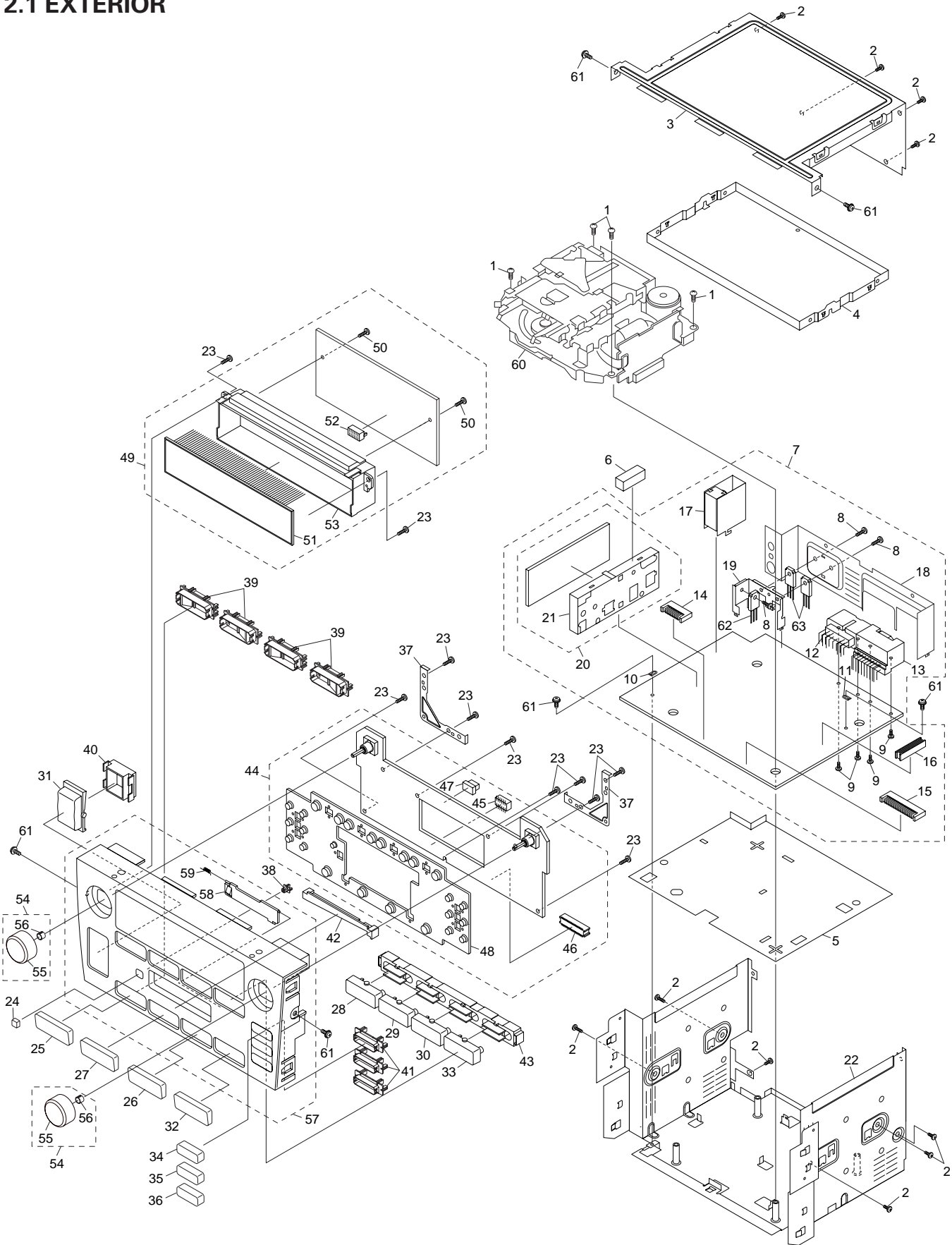
## **1. SAFETY INFORMATION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

2. EXPLODED VIEWS AND PARTS LIST

2.1 EXTERIOR



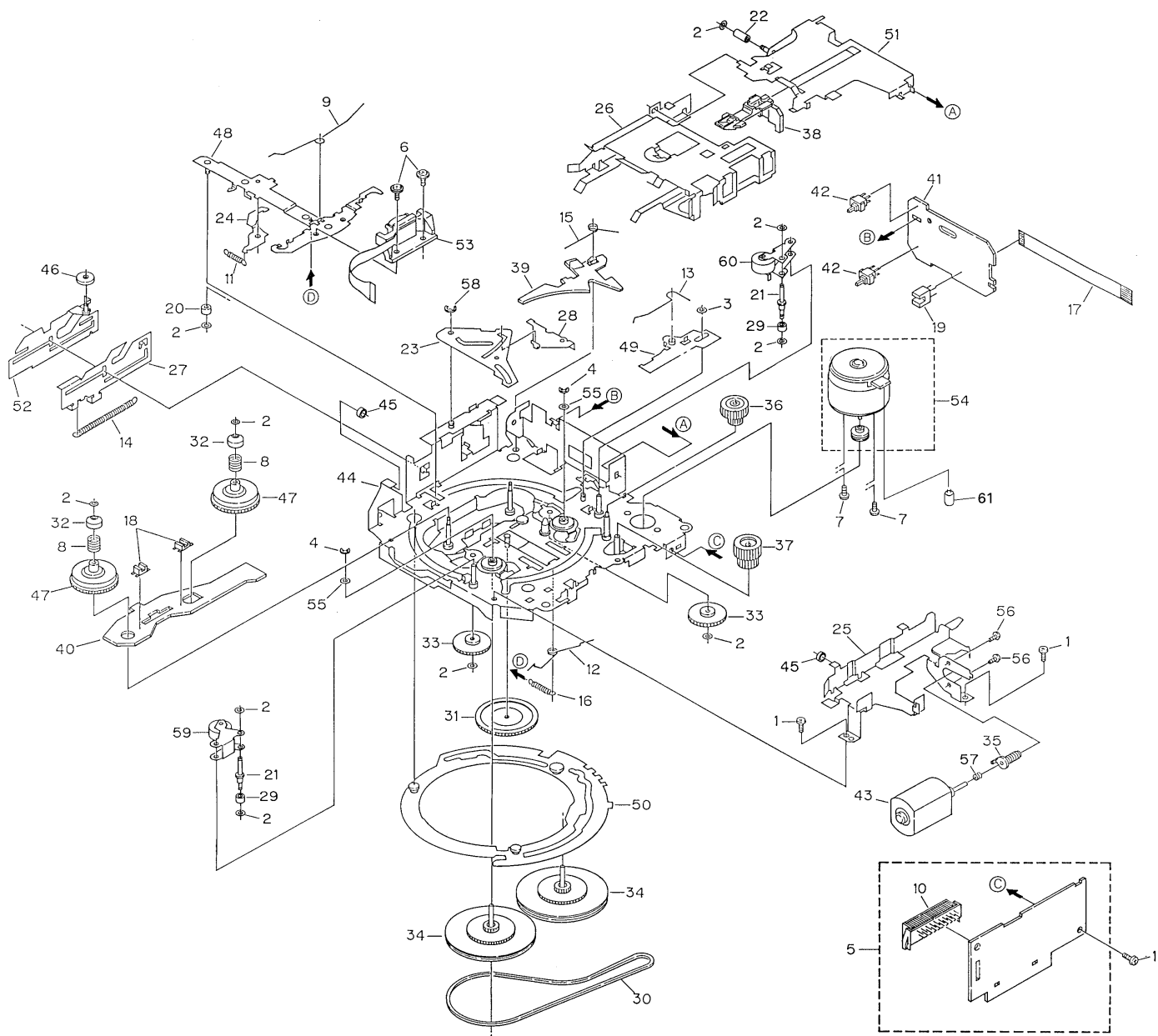
**NOTE:**

- Parts marked by “\*” are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

**● EXTERIOR SECTION PARTS LIST**

| Mark No. | Description         | Part No.     | Mark No. | Description               | Part No.     |
|----------|---------------------|--------------|----------|---------------------------|--------------|
| 1        | Screw               | BMZ26P050FMC | 39       | Holder                    | CNV4739      |
| 2        | Screw               | BMZ30P050FMC | 40       | Holder                    | CNV4740      |
| 3        | Case                | CNB2550      |          |                           |              |
| 4        | Holder              | CNC8972      | 41       | Holder                    | CNV4741      |
| 5        | Insulator           | CNM6849      | 42       | Lighting Conductor        | CNV4883      |
|          |                     |              | 43       | Holder                    | CNV5337      |
| 6        | Cushion             | CNM6935      | 44       | Keyboard Unit             | CWM7101      |
| 7        | Main Unit           | CWM7090      | 45       | Socket(CN902)             | CKS3548      |
| 8        | Screw               | BMZ30P080FMC |          |                           |              |
| 9        | Screw               | BPZ30P060FSN | 46       | Socket(CN901)             | CKS3555      |
| 10       | Terminal(CN202)     | CKF1059      | 47       | Socket(CN903)             | CKS3972      |
|          |                     |              | 48       | Rubber                    | CNV4743      |
| 11       | Terminal(CN303)     | CKF1059      | 49       | LCD Unit                  | CWM7104      |
| 12       | Connector(CN302)    | CKM1065      | 50       | Screw                     | BPZ26P100FMC |
| 13       | Connector(CN301)    | CKM1322      |          |                           |              |
| 14       | Plug(CN652)         | CKS3535      | 51       | LCD                       | CAW1594      |
| 15       | Plug(CN651)         | CKS3542      | 52       | Plug(CN951)               | CKS3574      |
|          |                     |              | 53       | Holder                    | CNV6140      |
| 16       | Connector(CN701)    | CKS3568      | 54       | Knob Assy                 | CXA9518      |
| 17       | Antenna Jack(CN201) | CKX1024      | * 55     | Knob                      | CAA1401      |
| 18       | Holder              | CNC8711      |          |                           |              |
| 19       | Holder              | CNC8712      | 56       | Spring                    | CBL-108      |
| 20       | FM/AM Tuner Unit    | CWE1543      | 57       | Grille Unit(M8406ZT)      | CXB5287      |
|          |                     |              |          | Grille Unit(M9406ZT)      | CXB5582      |
| 21       | Holder              | CNC6774      | 58       | Door(M8406ZT)             | CAT2127      |
| 22       | Chassis Unit        | CXB5288      |          | Door(M9406ZT)             | CAT2140      |
| 23       | Screw               | BPZ26P100FMC |          |                           |              |
| 24       | Button(EJECT)       | CAC4839      | 59       | Spring                    | CBH1371      |
| 25       | Button(AM)          | CAC4841      | 60       | Cassette Mechanism Module | EXK3885      |
|          |                     |              | 61       | Screw                     | IMS26P050FMC |
| 26       | Button(TAPE)        | CAC4843      | 62       | Transistor(Q331)          | 2SB1185      |
| 27       | Button(FM)          | CAC4848      | 63       | Transistor(Q521,522)      | 2SB1185      |
| 28       | Button(1,2)         | CAC5274      |          |                           |              |
| 29       | Button(3,4)         | CAC5275      |          |                           |              |
| 30       | Button(5,6)         | CAC5276      |          |                           |              |
|          |                     |              |          |                           |              |
| 31       | Button(SEEK,TRACK)  | CAC6543      |          |                           |              |
| 32       | Button(DISC)        | CAC6544      |          |                           |              |
| 33       | Button(SCAN,MSG)    | CAC6545      |          |                           |              |
| 34       | Button(RDS)         | CAC6546      |          |                           |              |
| 35       | Button(TRAF)        | CAC6547      |          |                           |              |
|          |                     |              |          |                           |              |
| 36       | Button(TYPE)        | CAC6548      |          |                           |              |
| 37       | Holder              | CNC7052      |          |                           |              |
| 38       | Holder              | CNV4738      |          |                           |              |

2.2 CASSETTE MECHANISM MODULE

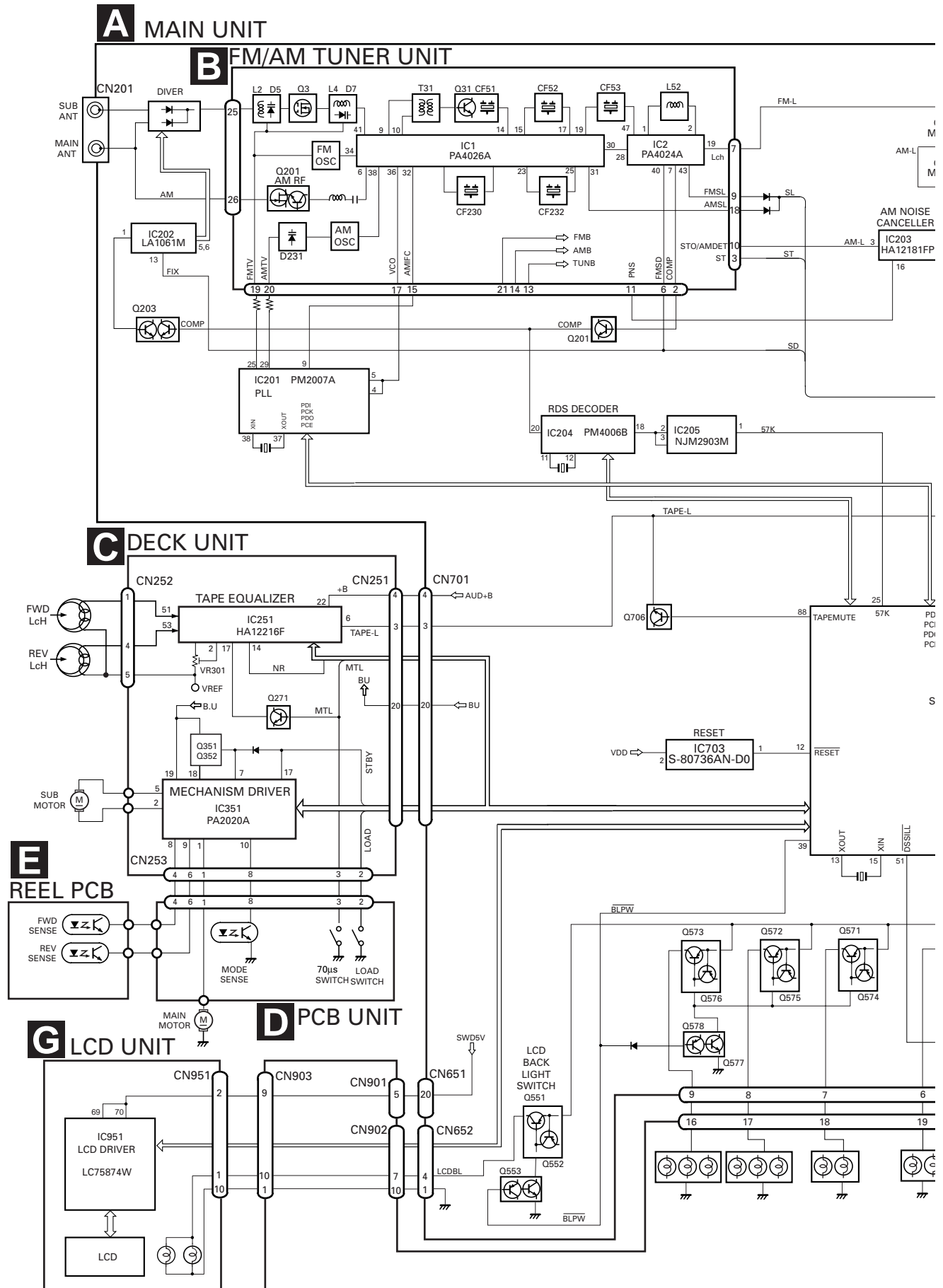


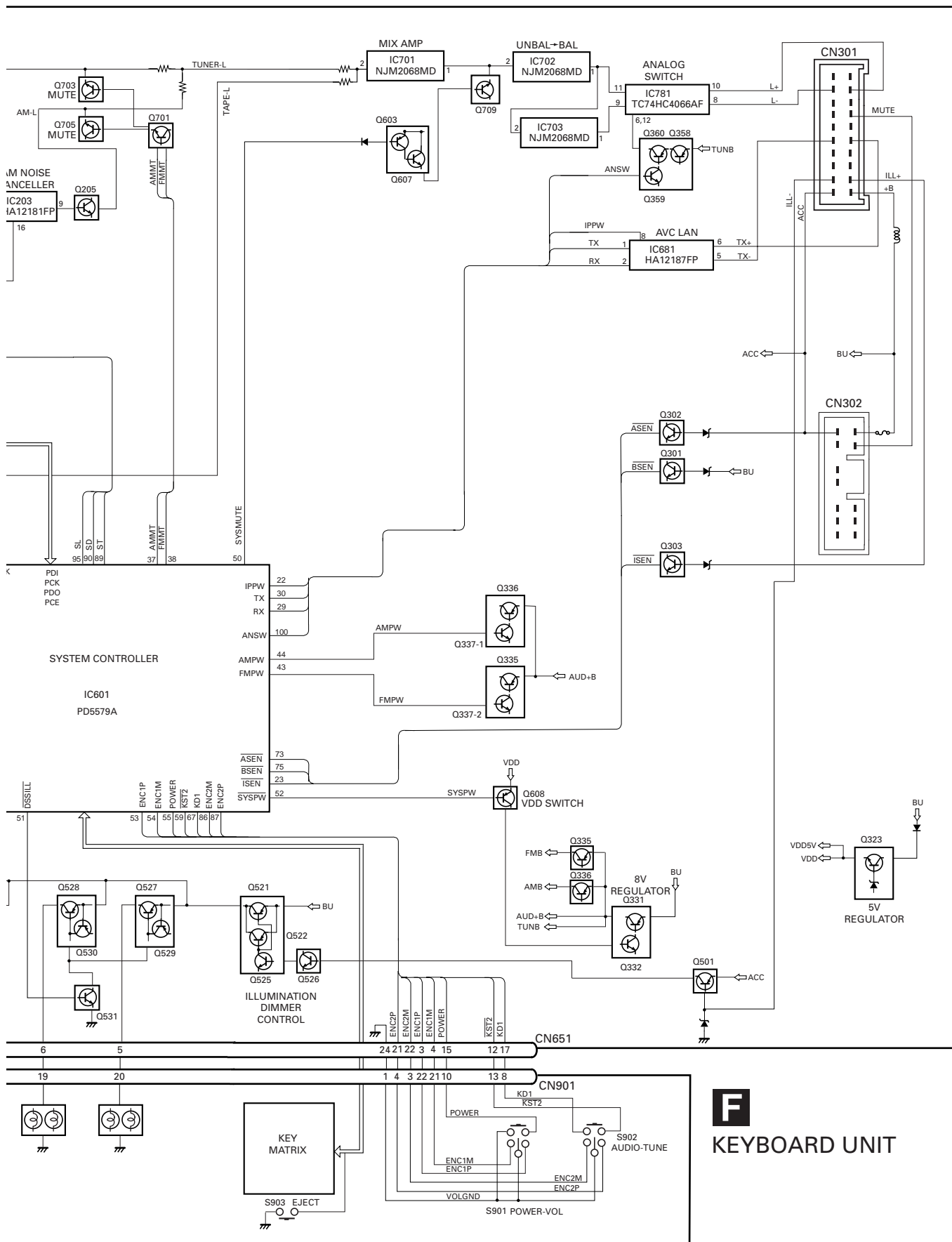
# ● CASSETTE MECHANISM MODULE SECTION PARTS LIST

| Mark No. | Description               | Part No.     | Mark No. | Description          | Part No.     |
|----------|---------------------------|--------------|----------|----------------------|--------------|
| 1        | Screw                     | BSZ20P040FMC | 31       | Gear                 | ENV1347      |
| 2        | Washer                    | CBF1037      | 32       | Collar               | ENV1508      |
| 3        | Washer                    | CBF1038      | 33       | Gear                 | ENV1350      |
| 4        | Washer                    | CBG1003      | 34       | Flywheel             | ENV1500      |
| 5        | Deck Unit                 | EWM1027      | 35       | Worm Gear            | ENV1439      |
| 6        | Screw(M2x5)               | EBA1028      | 36       | Worm Wheel           | ENV1440      |
| 7        | Screw(M2x2.5)             | EBA1037      | 37       | Gear                 | ENR1037      |
| 8        | Spring                    | EBH1531      | 38       | Lever                | ENV1533      |
| 9        | Spring                    | EBH1589      | 39       | Arm                  | ENV1525      |
| 10       | Connector(CN251)          | CKS3540      | 40       | Gathering PCB        | ENX1037      |
| 11       | Spring                    | EBH1515      | 41       | Gathering PCB        | ENX1060      |
| 12       | Spring                    | EBH1587      | 42       | Switch(S1)(S2)       | ESG1004      |
| 13       | Spring                    | EBH1517      | 43       | Motor Unit(M2)(SUB)  | EXA1382      |
| 14       | Spring                    | EBH1518      | 44       | Chassis Unit         | EXA1559      |
| 15       | Spring                    | EBH1519      | 45       | Tube                 | ENM1039      |
| 16       | Spring                    | EBH1537      | 46       | Roller               | ENR1027      |
| 17       | Cord                      | EDD1027      | 47       | Reel Unit            | EXA1560      |
| 18       | Photo-interrupter(EGN2,3) | EGN1006      | 48       | Head Base Unit       | EXA1434      |
| 19       | Photo-interrupter(EGN1)   | EGN1005      | 49       | Lever Unit           | EXA1578      |
| 20       | Roller                    | ENR1031      | 50       | Gear Unit            | EXA1545      |
| 21       | Shaft                     | ELA1362      | 51       | Frame Unit           | EXA1476      |
| 22       | Roller                    | ELA1348      | 52       | Lever Unit           | EXA1439      |
| 23       | Arm                       | ENC1490      | 53       | Head Assy(HD1)       | EXA1594      |
| 24       | Arm                       | ENC1397      | 54       | Motor Unit(M1)(MAIN) | EXA1499      |
| 25       | Guide                     | ENC1519      | 55       | Washer               | HBF-179      |
| 26       | Holder                    | ENC1516      | 56       | Screw                | JGZ20P025FNI |
| 27       | Lever                     | ENC1448      | 57       | Spring               | EBH1545      |
| 28       | Arm                       | ENC1488      | 58       | Washer               | YE20FUC      |
| 29       | Roller                    | ENR1023      | 59       | Pinch Roller Unit    | EXA1533      |
| 30       | Belt                      | ENT1027      | 60       | Pinch Roller Unit    | EXA1532      |
|          |                           |              | 61       | Capacitor(C1)        | CEAL4R7M35   |

### 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

#### 3.1 BLOCK DIAGRAM

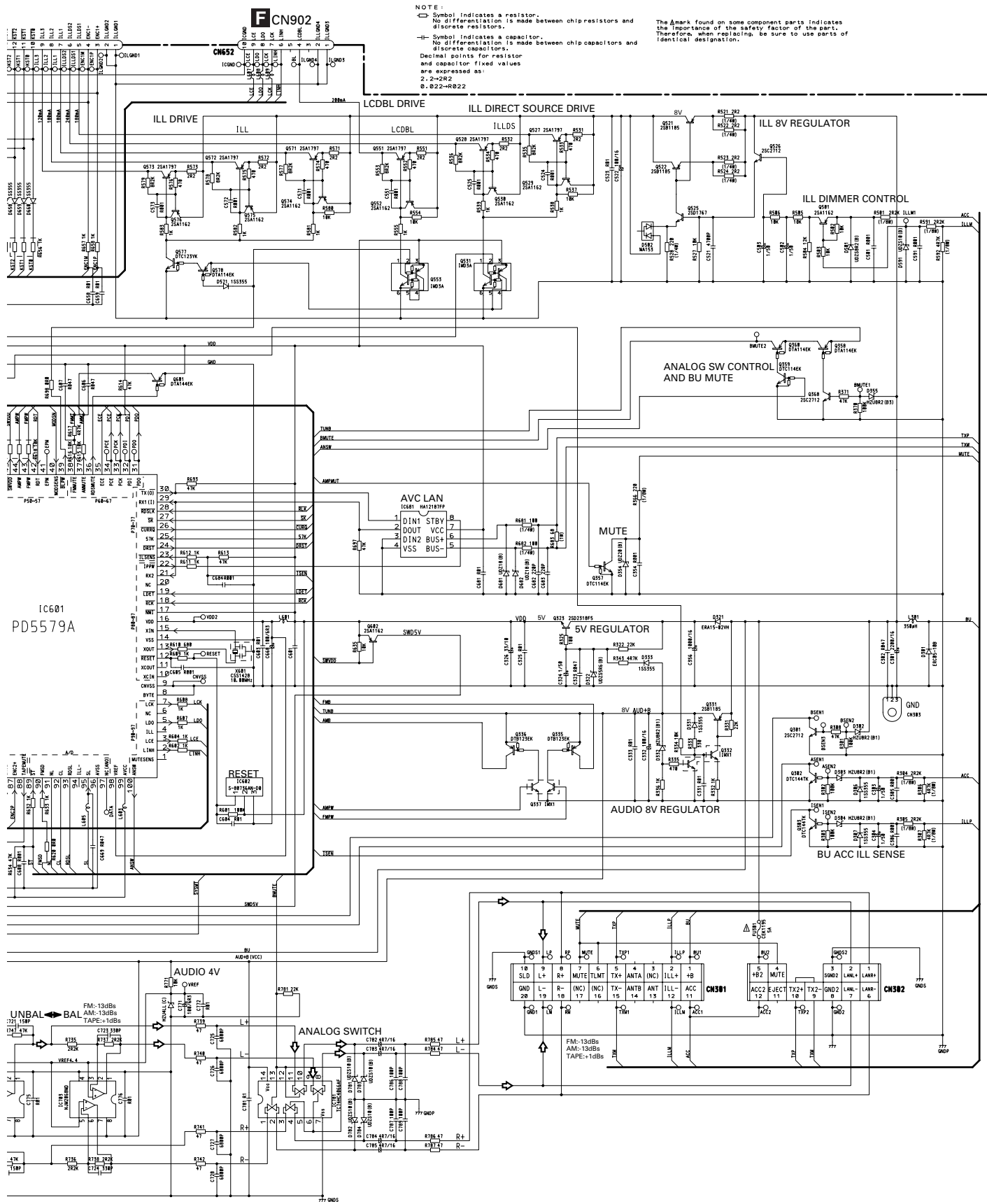




**F**  
KEYBOARD UNIT



A-b



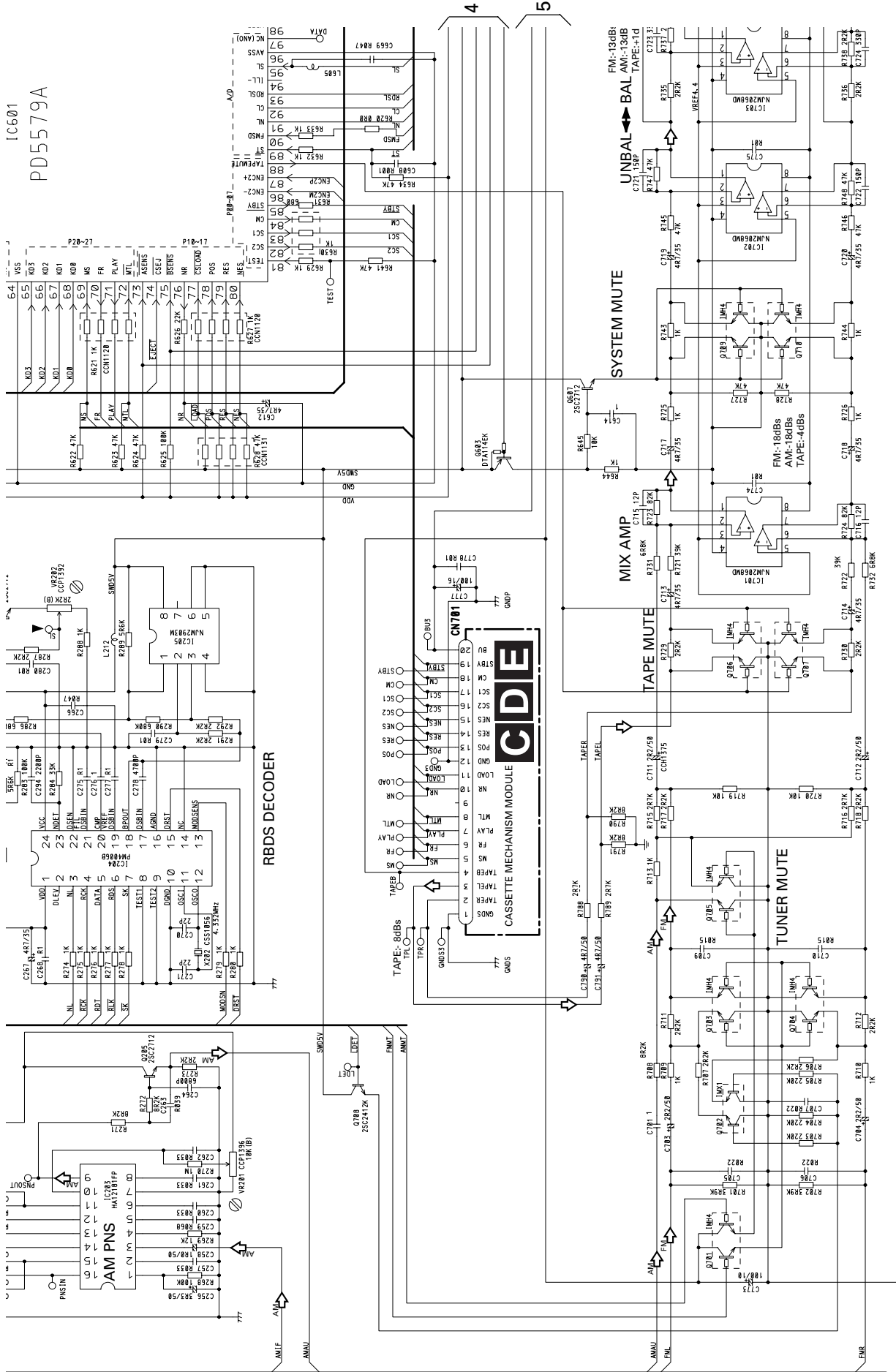
A

B

C


D






A-a A-b

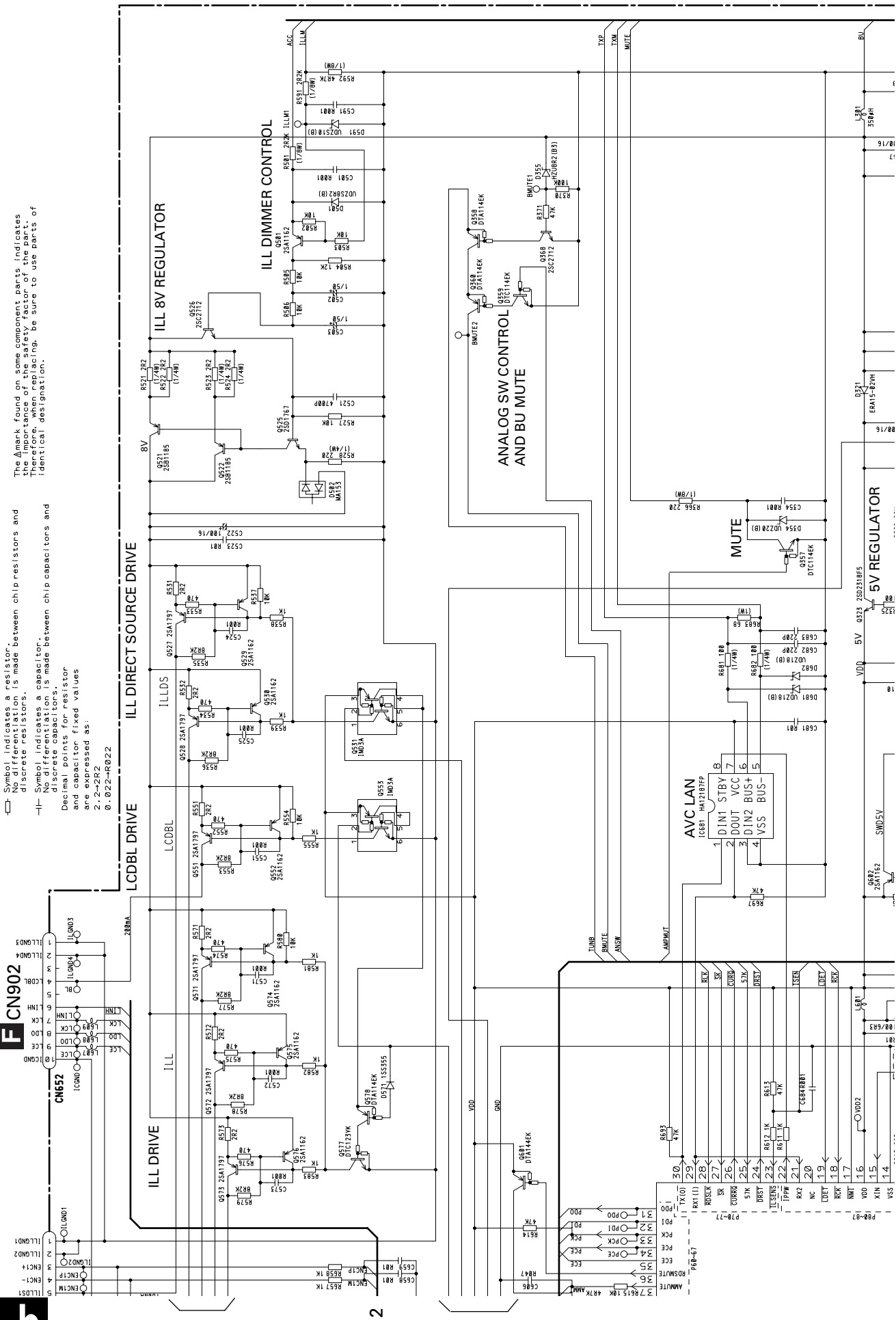
**NOTE :**

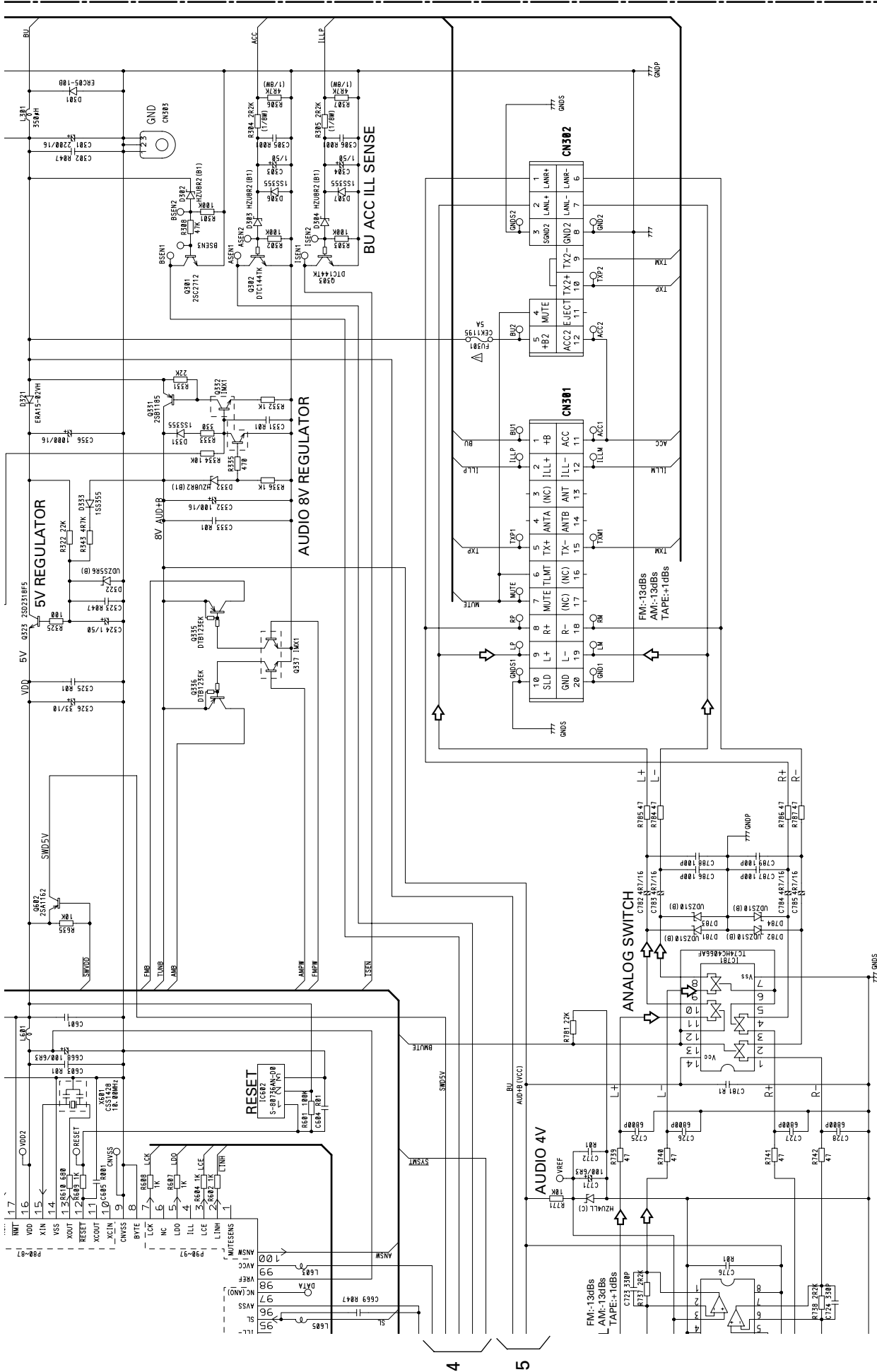
 Symbol indicates a resistor.  
 No differentiation is made between discrete resistors.

 Symbol indicates a capacitor.  
 No differentiation is made between discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
 2.2-2R2  
 0.022-#022

The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.





A-a A-b

A

B

C

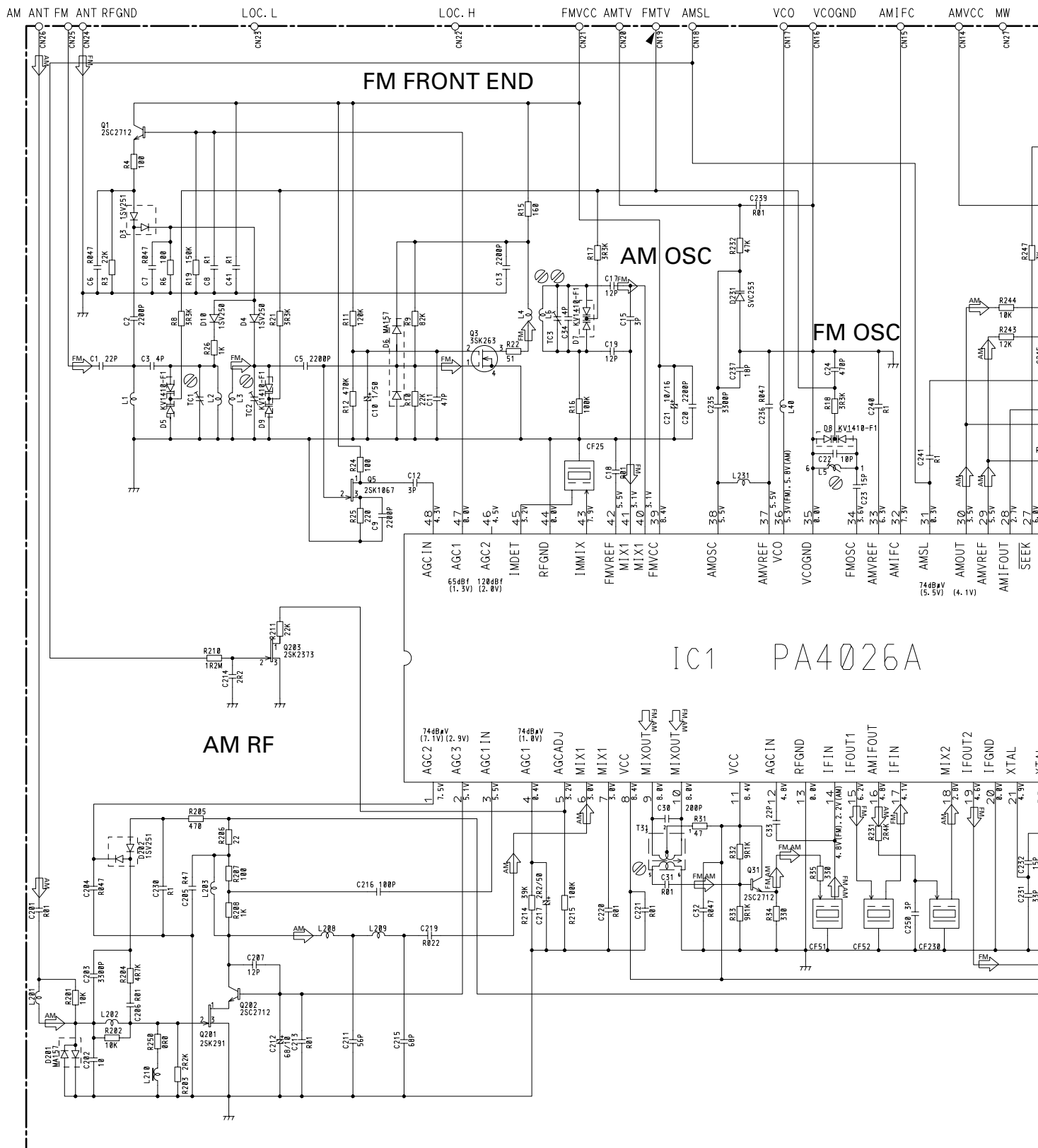
D

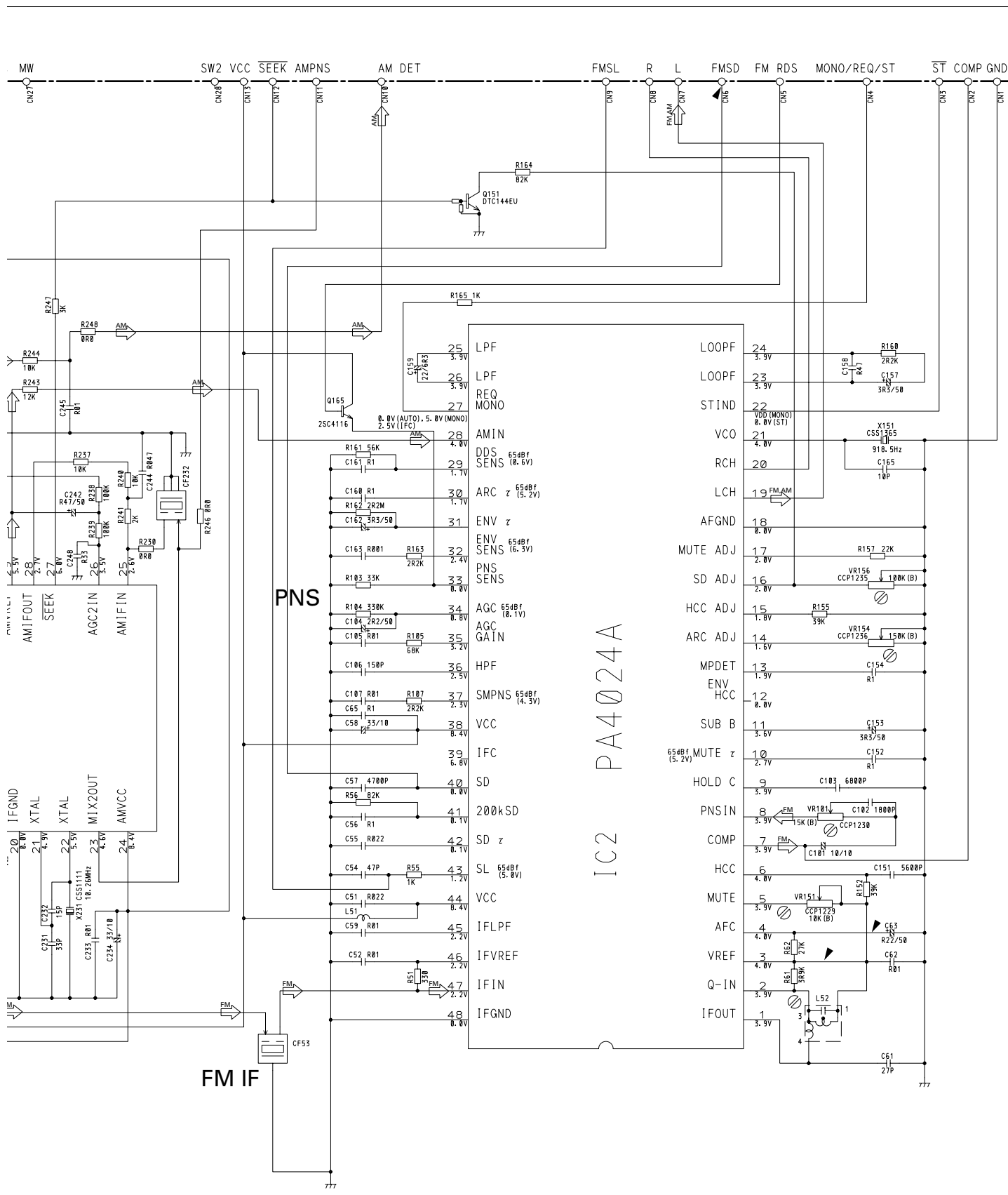
**A-b**

### 3.3 FM/AM TUNER UNIT

A

#### B FM/AM TUNER UNIT





3.4 CASSETTE MECHANISM MODULE

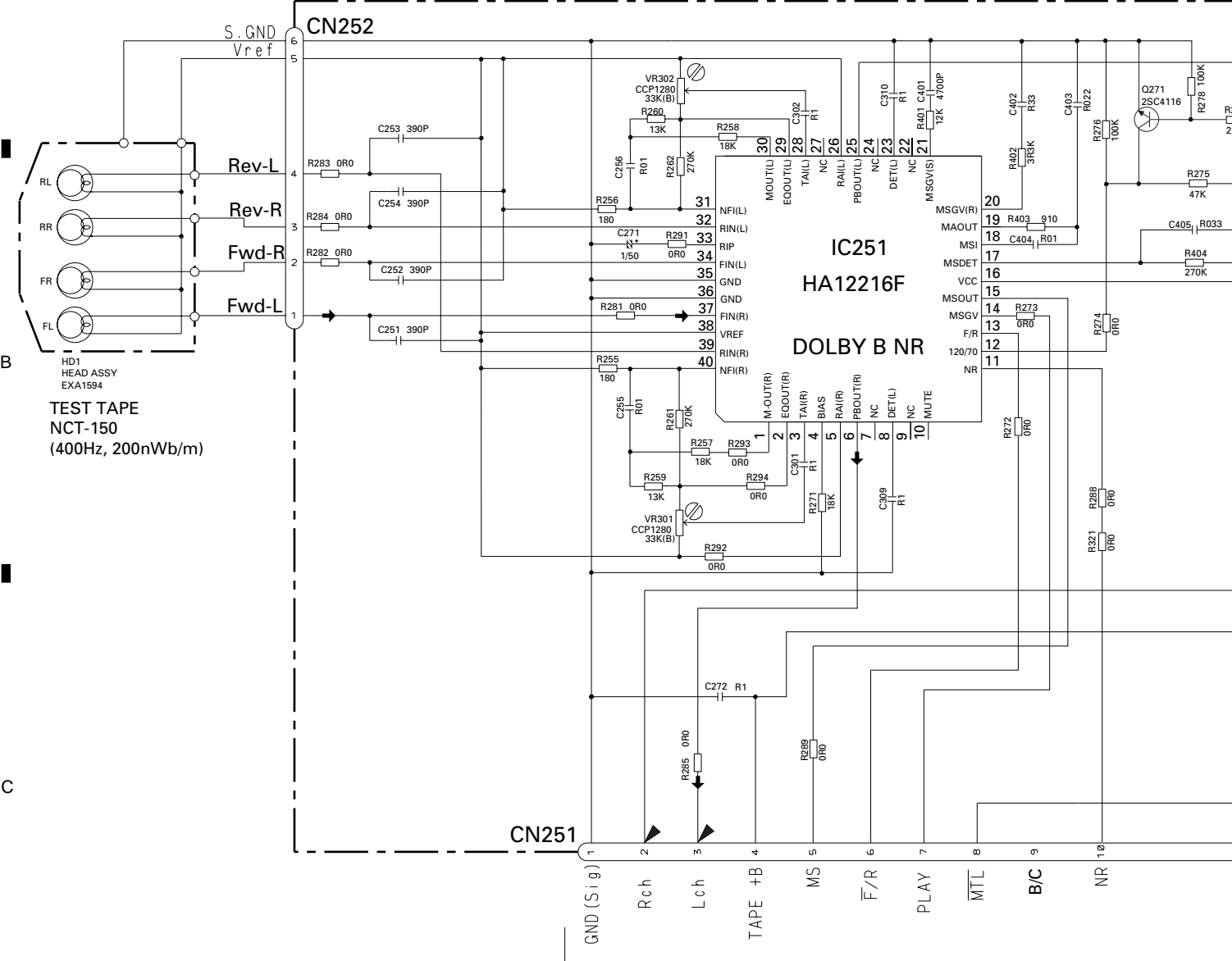
C DECK UNIT

A

B

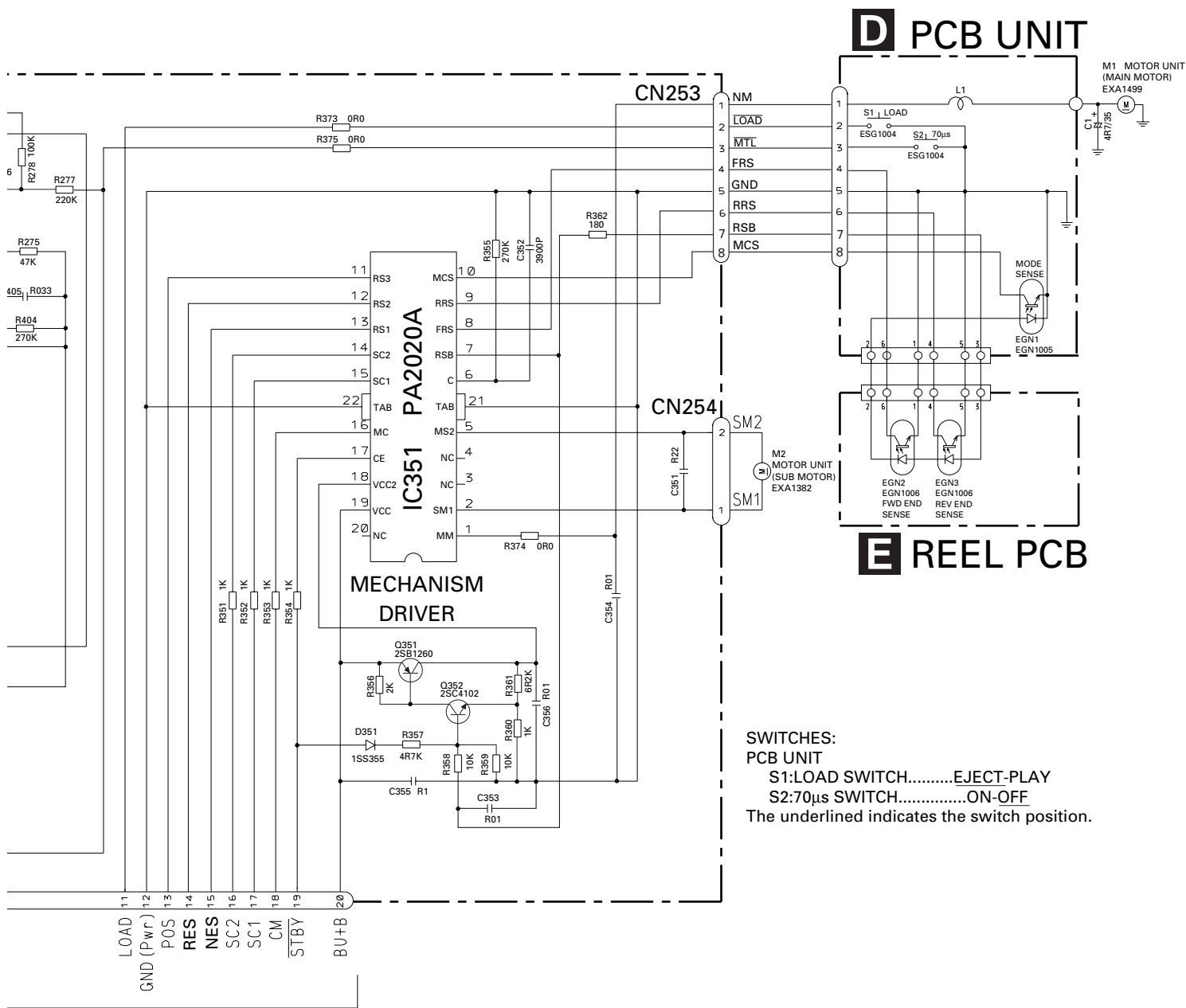
C

D



-8.24dBs(300mV)±1dB

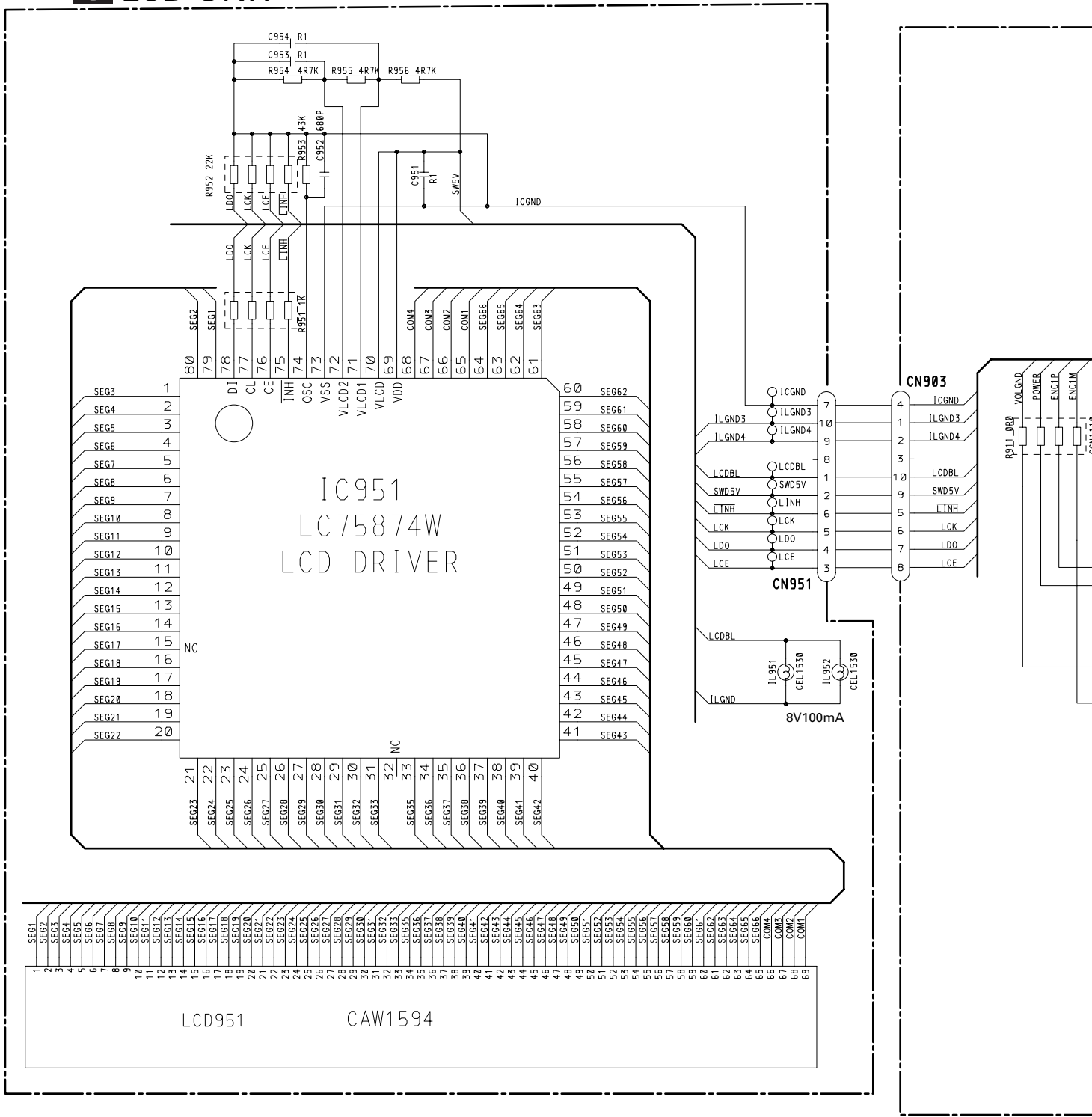
A CN701



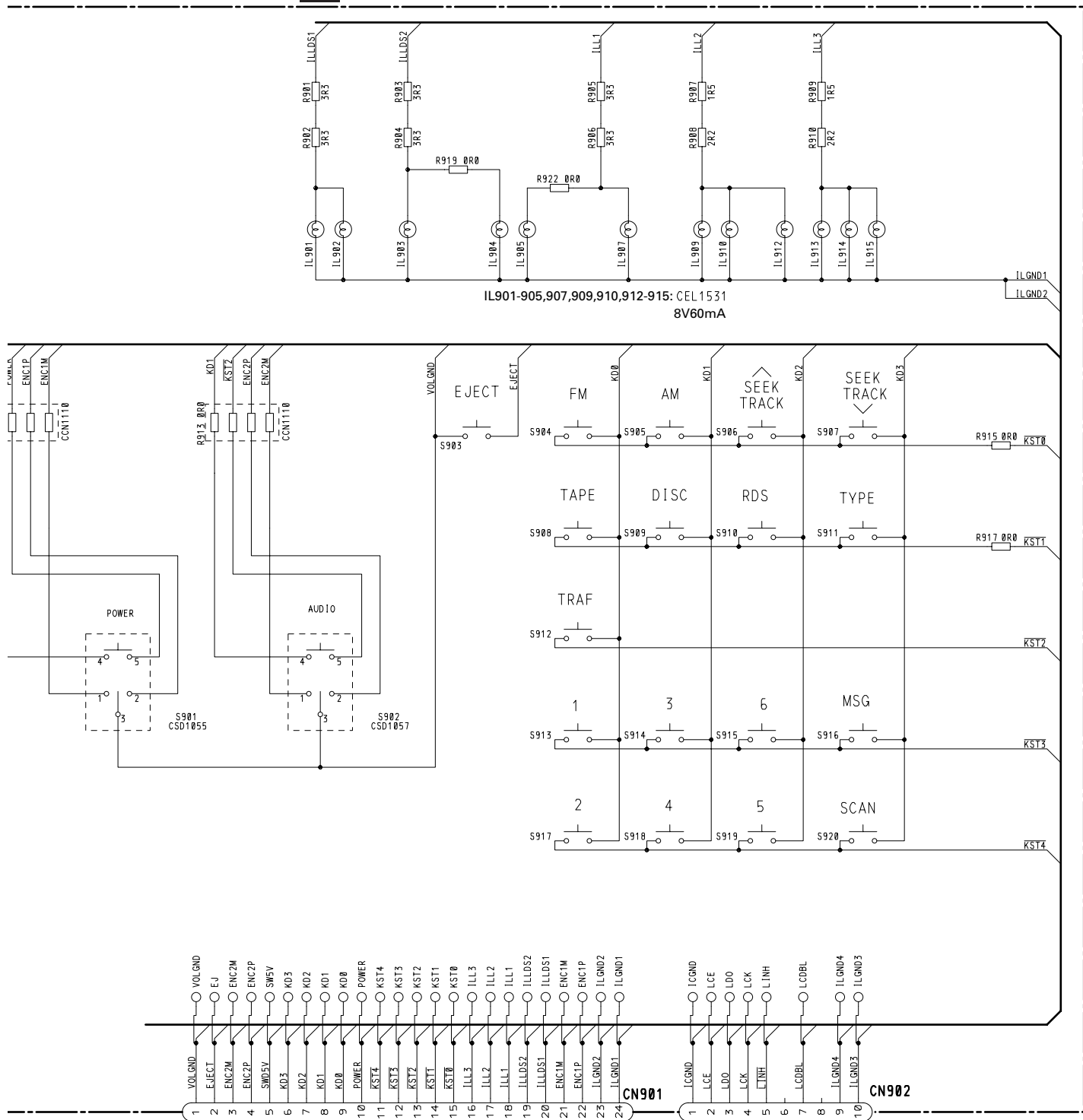
3.5 LCD UNIT, KEYBOARD UNIT

A

**G** LCD UNIT



# F KEYBOARD UNIT



A CN651

A CN652

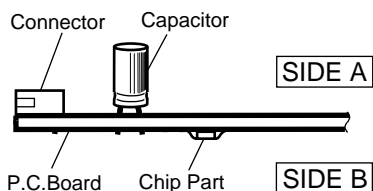
## 4. PCB CONNECTION DIAGRAM

### 4.1 MAIN UNIT

#### NOTE FOR PCB DIAGRAMS

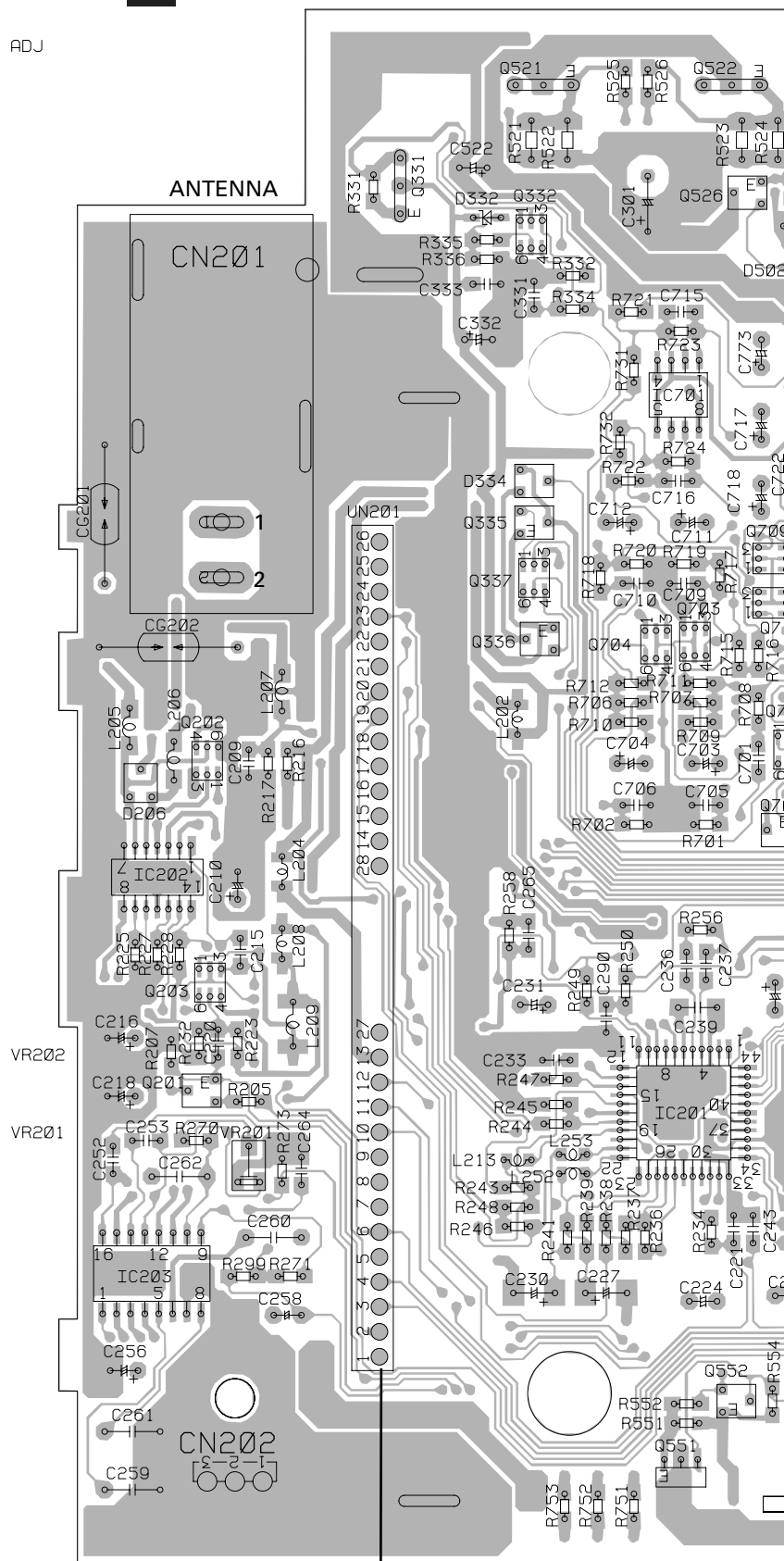
1. The parts mounted on this PCB include all necessary parts for several destination.  
For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams

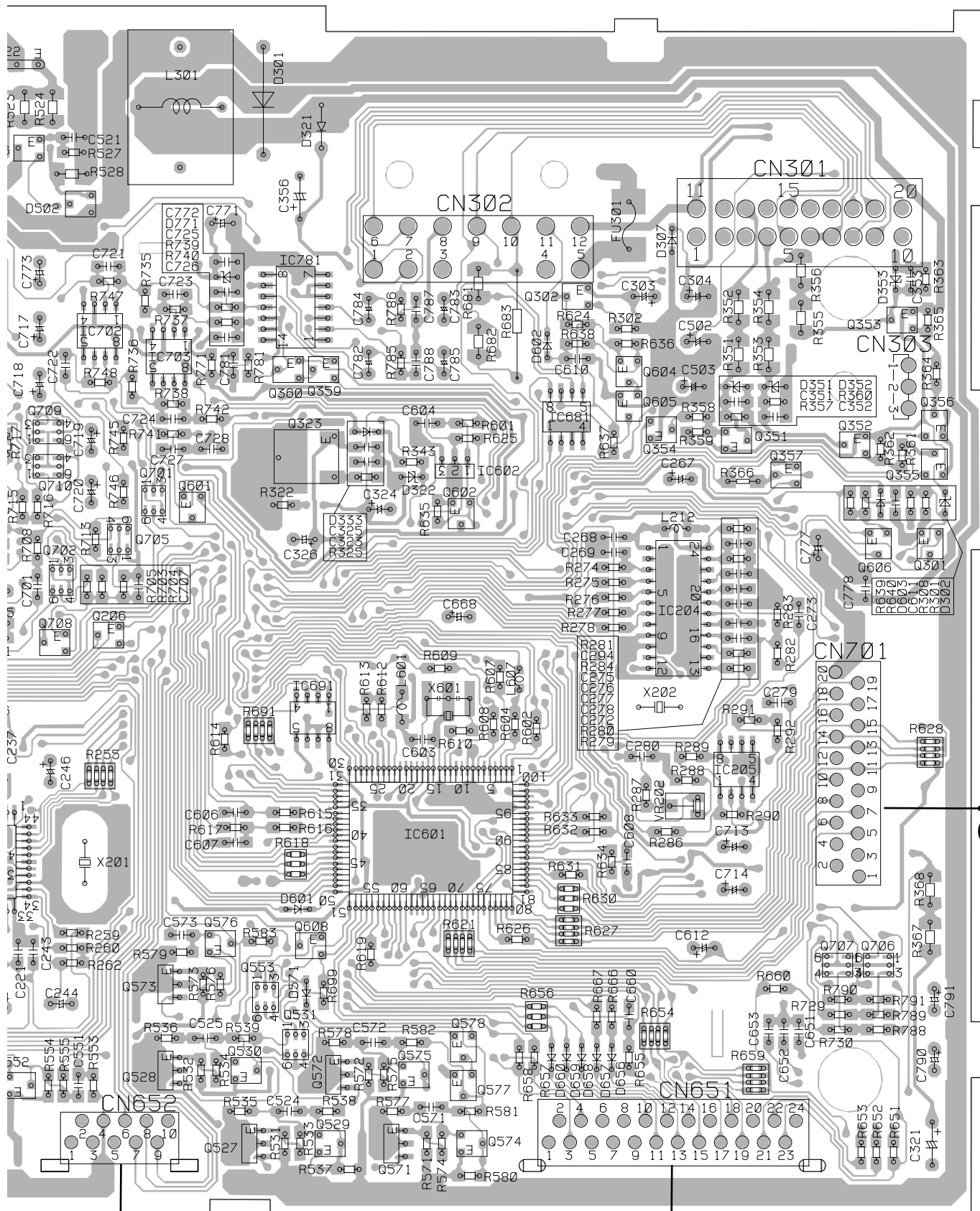


|       |       | IC, Q | ADJ |
|-------|-------|-------|-----|
| Q521  | Q522  |       |     |
| Q331  | Q332  | Q331  |     |
| Q332  | Q526  | Q526  |     |
| IC781 |       |       |     |
| Q302  |       |       |     |
| IC701 |       |       |     |
| IC702 | Q353  |       |     |
| IC703 |       |       |     |
| Q360  | Q604  |       |     |
| Q359  | Q605  | Q356  |     |
| Q335  | Q709  | IC681 |     |
| Q323  | Q351  | Q352  |     |
| Q337  | Q354  | Q357  |     |
| Q703  | Q701  | IC602 |     |
| Q710  | Q601  | Q355  |     |
| Q336  | Q704  | Q602  |     |
| Q705  |       |       |     |
| Q202  | Q702  |       |     |
| Q606  | Q301  |       |     |
| IC204 |       |       |     |
| Q708  | Q206  |       |     |
| IC202 |       |       |     |
| IC691 |       |       |     |
| Q203  | IC205 |       |     |
| IC601 |       |       |     |
| Q201  |       |       |     |
| IC201 |       |       |     |
| Q576  | Q608  |       |     |
| Q707  | Q706  |       |     |
| Q553  |       |       |     |
| Q573  |       |       |     |
| IC203 |       |       |     |
| Q531  |       |       |     |
| Q578  |       |       |     |
| Q530  | Q575  |       |     |
| Q552  |       |       |     |
| Q528  | Q572  | Q577  |     |
| Q551  | Q529  |       |     |
| Q574  |       |       |     |
| Q527  |       |       |     |
| Q571  |       |       |     |

#### A MAIN UNIT



SIDE A



FRONT

F CN902

F CN901

C CN251

A

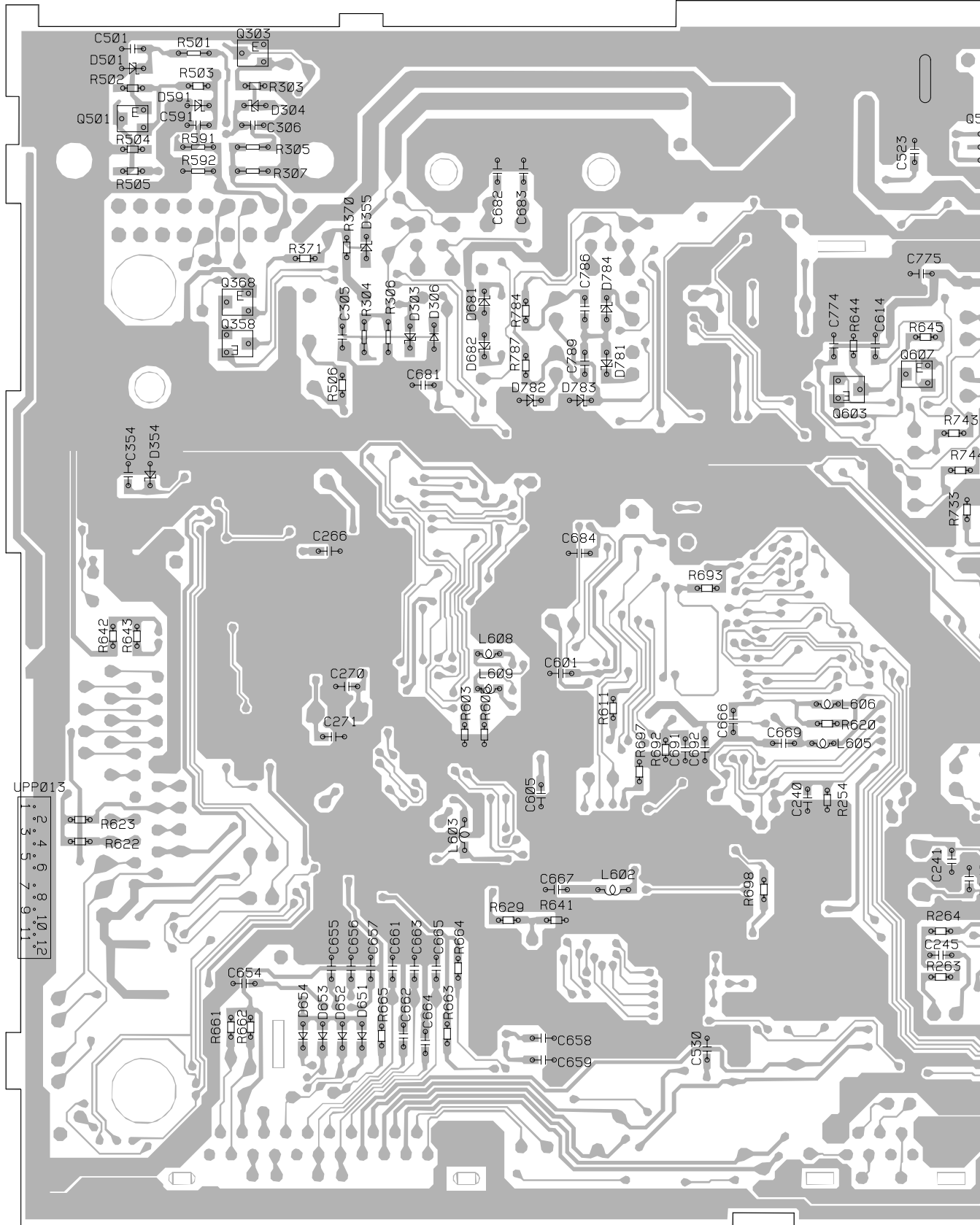
**A** MAIN UNIT

A

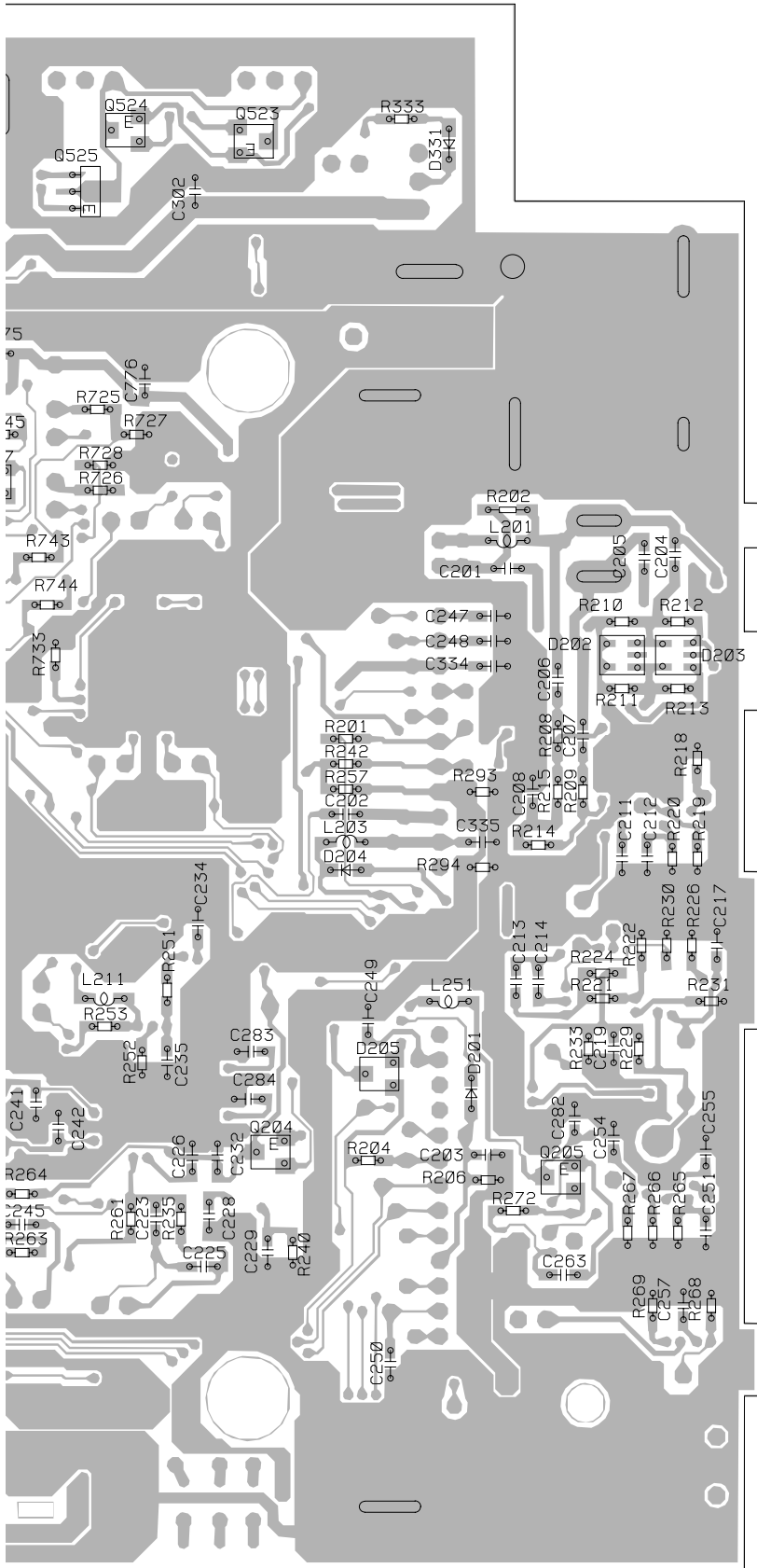
B

C

D



## SIDE B



IC, Q  
Q303

|      |      |
|------|------|
| Q524 | Q523 |
|------|------|

Q501 Q525

Q368

Q358

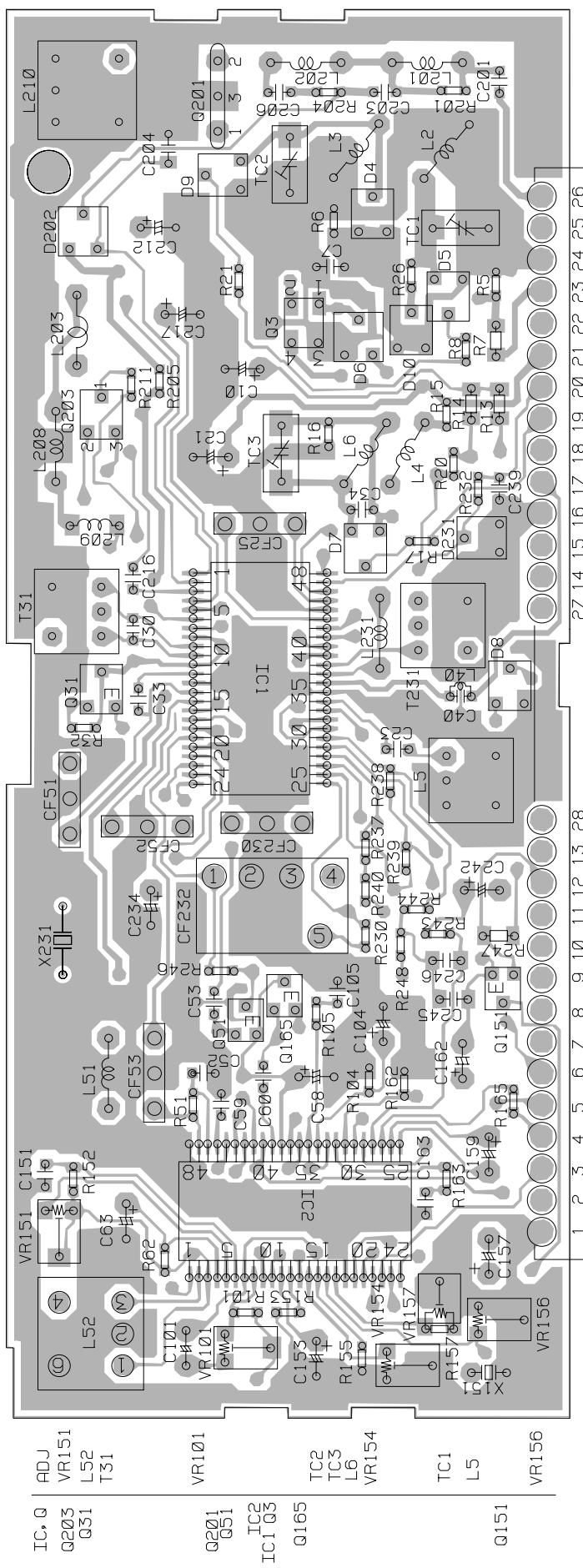
Q607

Q603

Q204

Q205

## 4.2 FM/AM TUNER UNIT



SIDE A

FM/AM TUNER UNIT

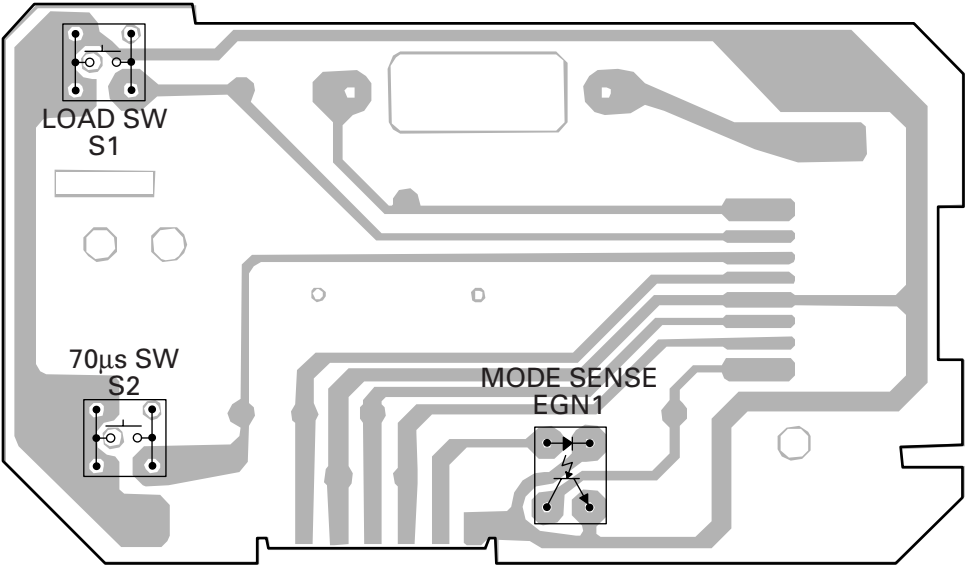
A





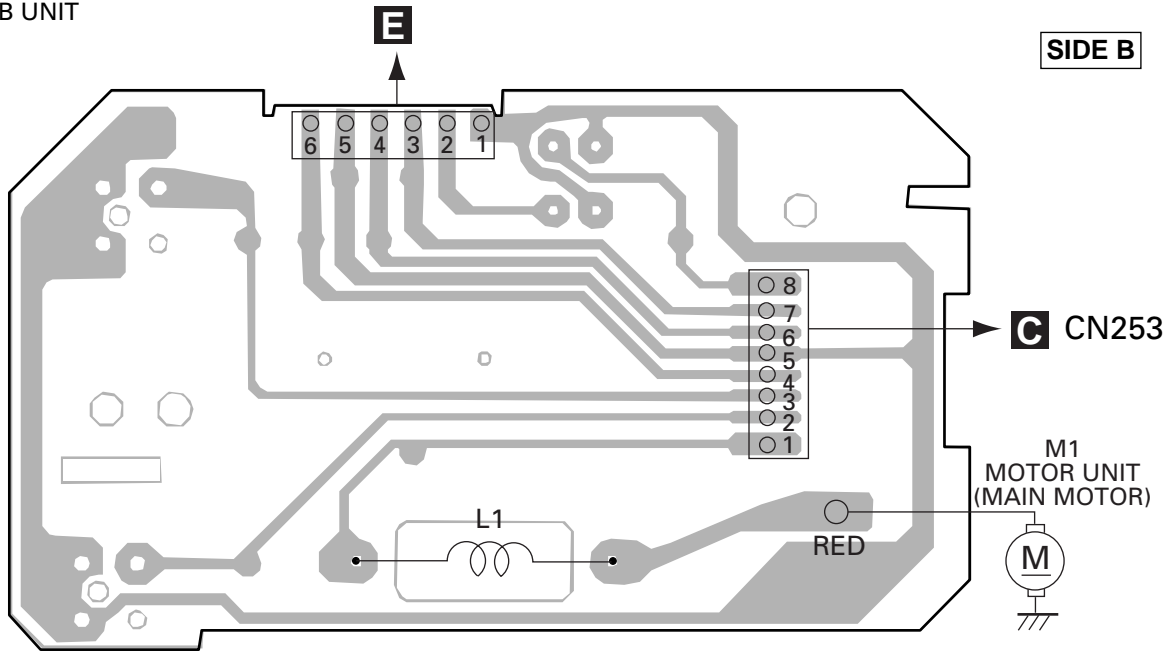
**D** PCB UNIT

**SIDE A**

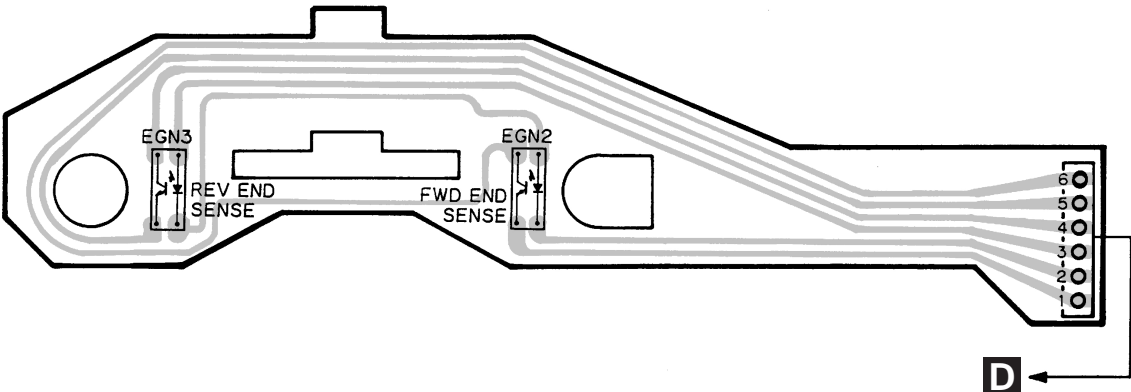


**D** PCB UNIT

**SIDE B**



**E** REEL UNIT



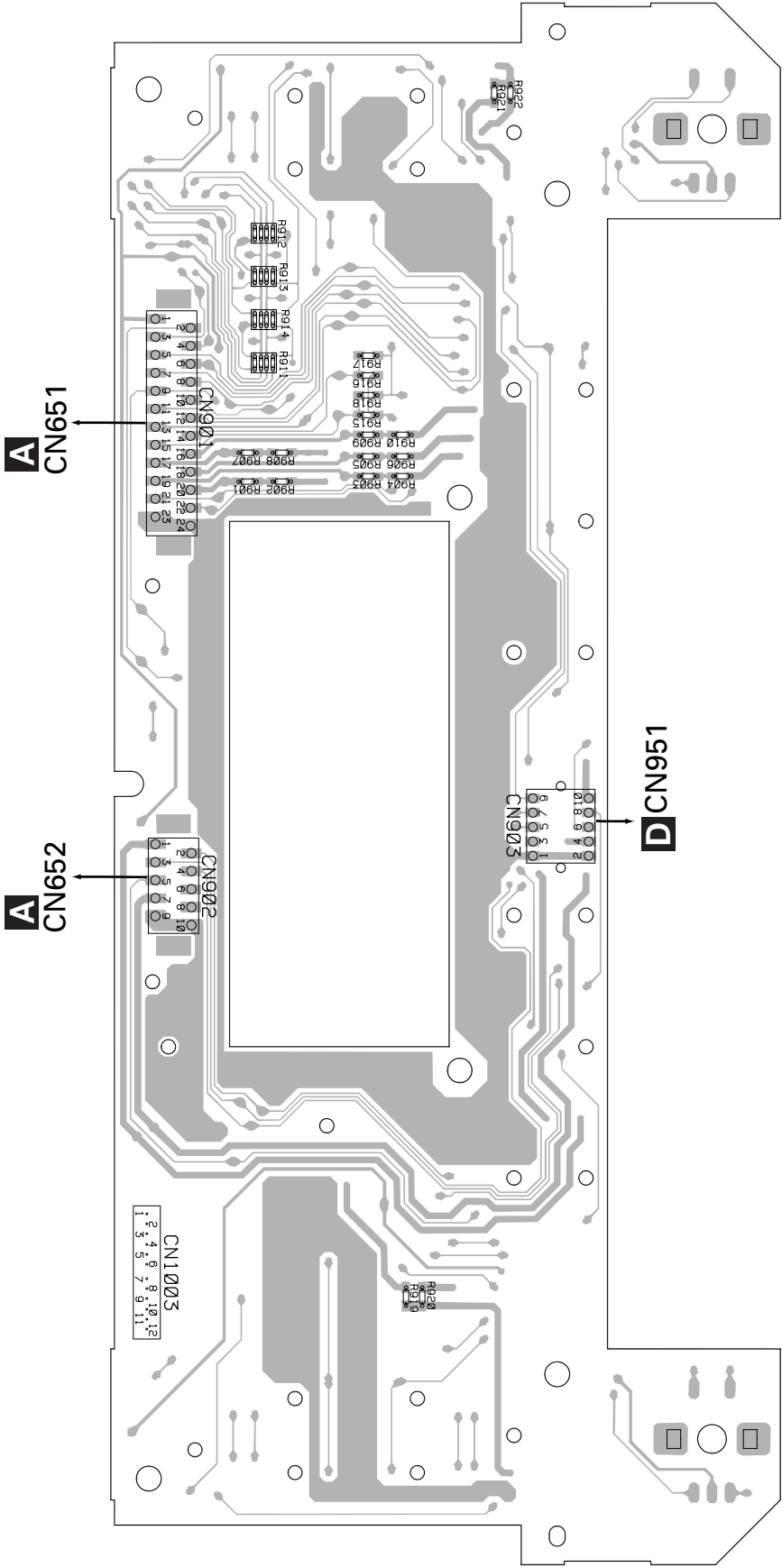
**D**

**D E**

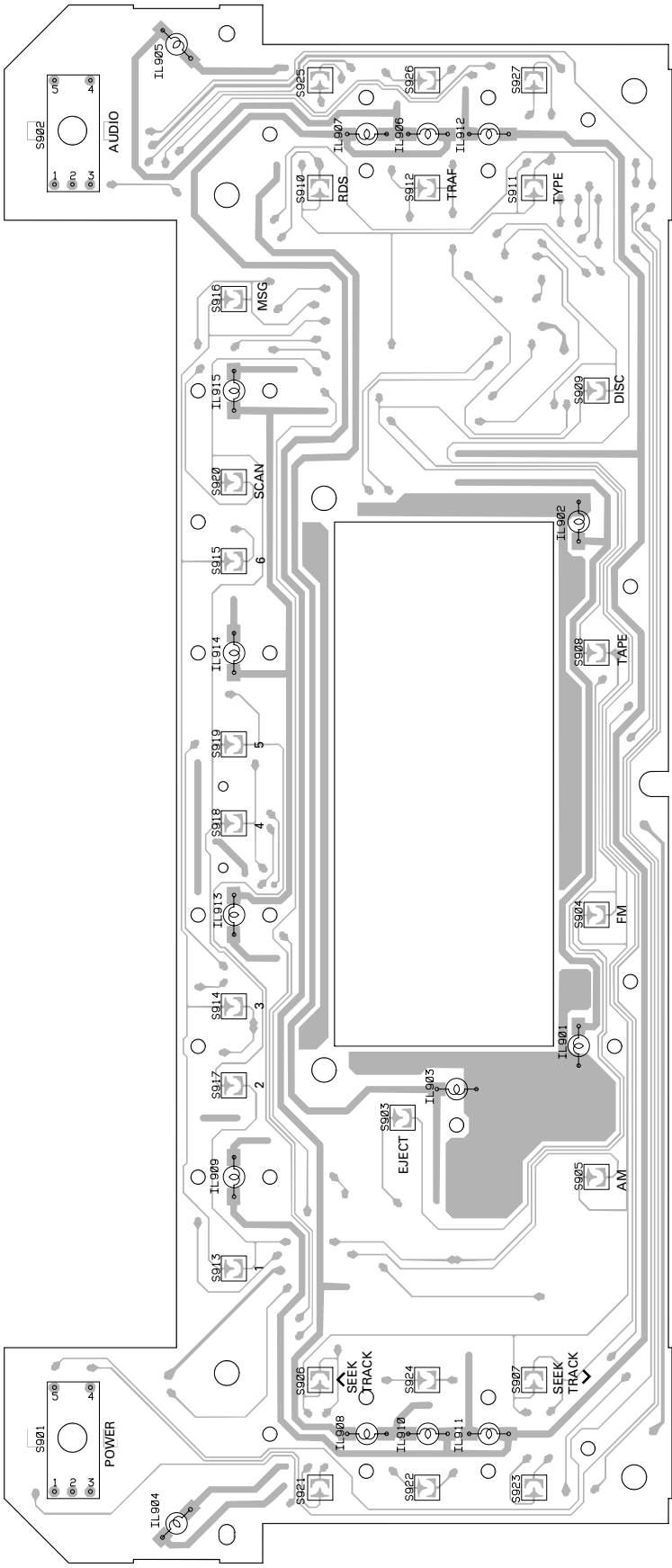
4.4 KEYBOARD UNIT

SIDE A

KEYBOARD UNIT



F KEYBOARD UNIT



SIDE B

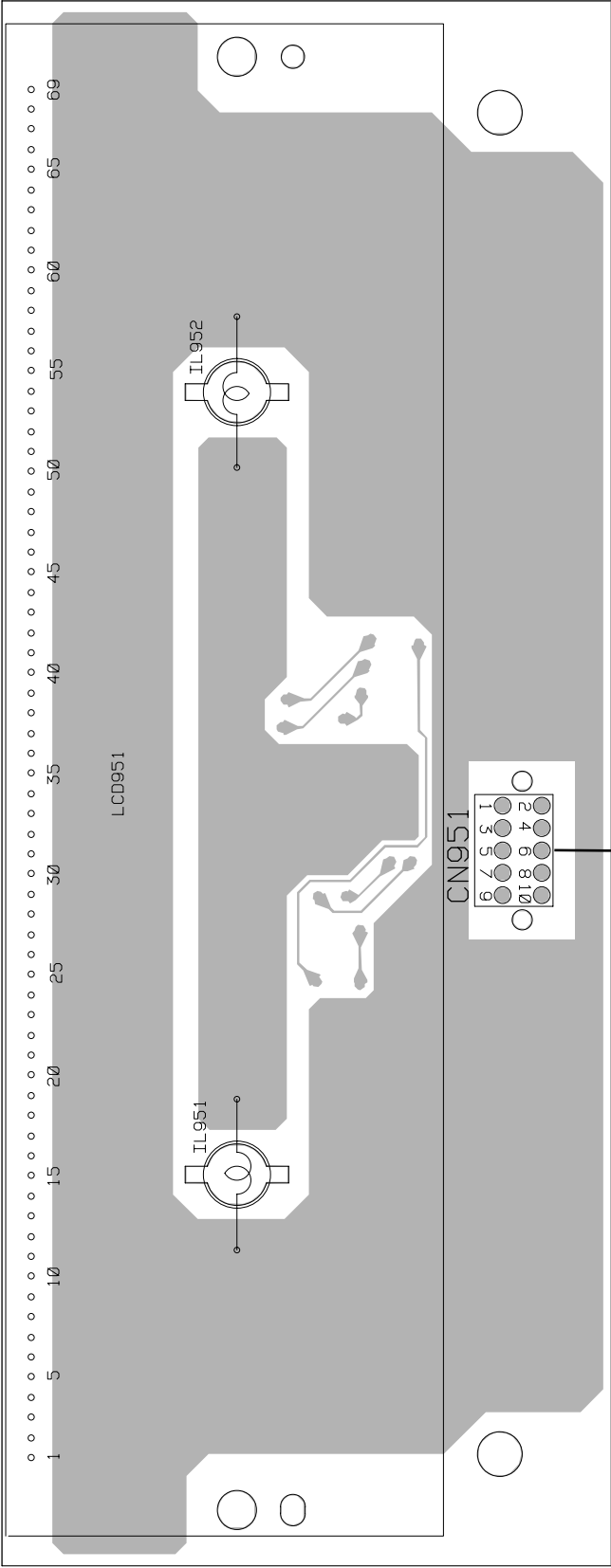
LCD UNIT

G

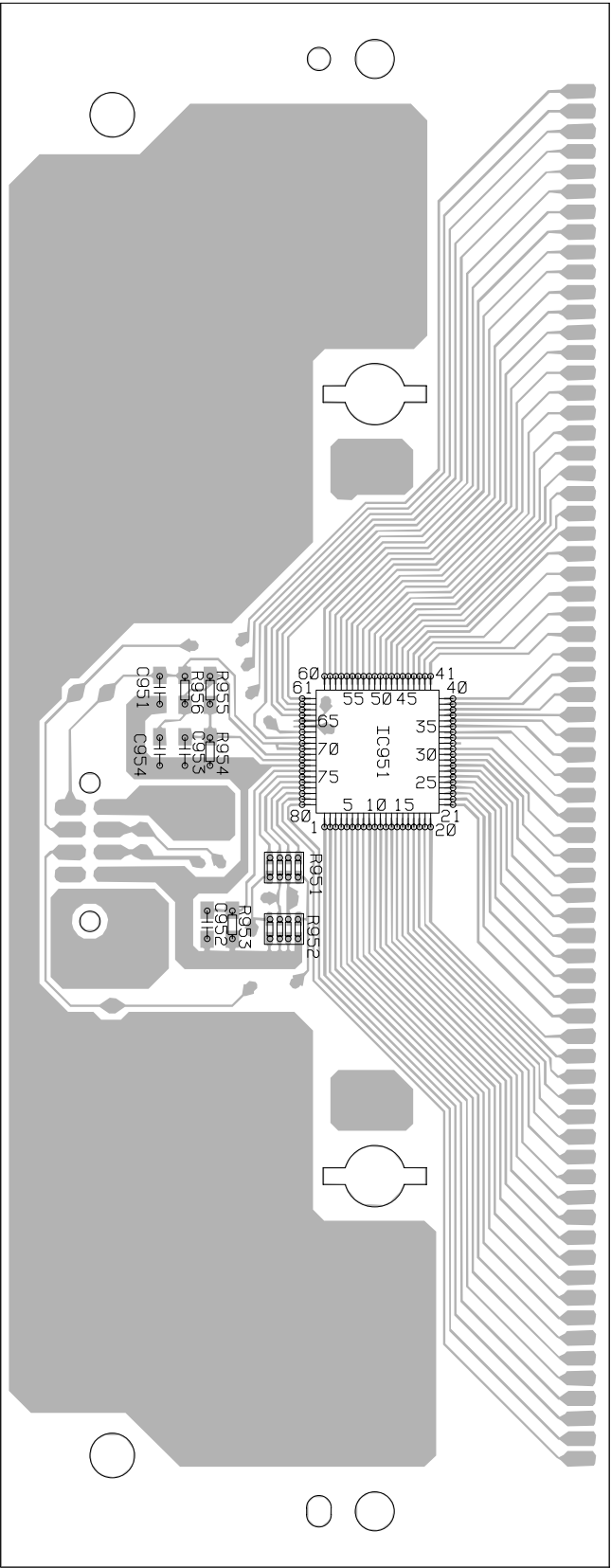
KEX-M8406ZT,M8406ZT-91,M9406ZT,M9406ZT-91

4.5 LCD UNIT

SIDE A



SIDE B



LCD UNIT



5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

| ====Circuit Symbol and No.==Part Name |     |                            | Part No.     | ====Circuit Symbol and No.==Part Name |                     |  | Part No.    |
|---------------------------------------|-----|----------------------------|--------------|---------------------------------------|---------------------|--|-------------|
| <b>B</b> Unit Number : CWE1543        |     |                            |              | VR 101                                | Semi-fixed 15kΩ(B)  |  | CCP1230     |
| Unit Name : FM/AM Tuner Unit          |     |                            |              | VR 151                                | Semi-fixed 10kΩ(B)  |  | CCP1229     |
| MISCELLANEOUS                         |     |                            |              | VR 154                                | Semi-fixed 150kΩ(B) |  | CCP1236     |
|                                       |     |                            |              | VR 156                                | Semi-fixed 100kΩ(B) |  | CCP1235     |
|                                       |     |                            |              | RESISTORS                             |                     |  |             |
| IC                                    | 1   | IC                         | PA4026A      | R                                     | 3                   |  | RS1/16S223J |
| IC                                    | 2   | IC                         | PA4024A      | R                                     | 4                   |  | RS1/16S101J |
| Q                                     | 1   | Chip Transistor            | 2SC2712      | R                                     | 6                   |  | RS1/16S101J |
| Q                                     | 3   | FET                        | 3SK263       | R                                     | 8                   |  | RS1/16S332J |
| Q                                     | 5   | Transistor                 | 2SK1067      | R                                     | 9                   |  | RS1/16S823J |
| Q                                     | 31  | Chip Transistor            | 2SC2712      |                                       |                     |  |             |
| Q                                     | 151 | Transistor                 | DTC144EU     | R                                     | 10                  |  | RS1/16S223J |
| Q                                     | 165 | Transistor                 | 2SC4116      | R                                     | 11                  |  | RS1/16S124J |
| Q                                     | 201 | FET                        | 2SK291       | R                                     | 12                  |  | RS1/16S474J |
| Q                                     | 202 | Chip Transistor            | 2SC2712      | R                                     | 15                  |  | RS1/16S161J |
| Q                                     | 203 | FET                        | 2SK2373      | R                                     | 16                  |  | RS1/16S104J |
| D                                     | 3   | Diode                      | 1SV251       |                                       |                     |  |             |
| D                                     | 4   | Diode                      | 1SV250       | R                                     | 17                  |  | RS1/16S332J |
| D                                     | 5   | Diode                      | KV1410-F1    | R                                     | 18                  |  | RS1/16S332J |
| D                                     | 6   | Diode                      | MA157        | R                                     | 19                  |  | RS1/16S154J |
| D                                     | 7   | Diode                      | KV1410-F1    | R                                     | 21                  |  | RS1/16S332J |
| D                                     | 8   | Diode                      | KV1410-F1    | R                                     | 22                  |  | RS1/16S510J |
| D                                     | 9   | Diode                      | KV1410-F1    |                                       |                     |  |             |
| D                                     | 10  | Diode                      | 1SV250       | R                                     | 24                  |  | RS1/16S101J |
| D                                     | 201 | Diode                      | MA157        | R                                     | 25                  |  | RS1/16S221J |
| D                                     | 202 | Diode                      | 1SV251       | R                                     | 26                  |  | RS1/16S102J |
| D                                     | 231 | Diode                      | SVC253       | R                                     | 31                  |  | RS1/16S470J |
| L                                     | 1   | Inductor                   | LCTBR12K2125 | R                                     | 32                  |  | RS1/16S912J |
| L                                     | 2   | Air-core Coil              | CTC1152      | R                                     | 33                  |  | RS1/16S912J |
| L                                     | 3   | Air-core Coil              | CTC1152      | R                                     | 34                  |  | RS1/16S331J |
| L                                     | 4   | Air-core Coil              | CTC1151      | R                                     | 35                  |  | RS1/16S331J |
| L                                     | 5   | Coil                       | CTC1147      | R                                     | 51                  |  | RS1/16S331J |
| L                                     | 6   | Air-core Coil              | CTC1153      | R                                     | 55                  |  | RS1/16S102J |
| L                                     | 40  | Inductor                   | LCTBR15K1608 |                                       |                     |  |             |
| L                                     | 51  | Ferri-Inductor             | LAU150K      | R                                     | 56                  |  | RS1/16S823J |
| L                                     | 52  | Coil                       | CTC1136      | R                                     | 61                  |  | RS1/16S392J |
| L                                     | 201 | Ferri-Inductor             | LAU4R7K      | R                                     | 62                  |  | RS1/16S273J |
| L                                     | 202 | Ferri-Inductor             | LAU330K      | R                                     | 103                 |  | RS1/16S333J |
| L                                     | 203 | Inductor                   | CTF1371      | R                                     | 104                 |  | RS1/16S334J |
| L                                     | 208 | Inductor                   | LAU390K      |                                       |                     |  |             |
| L                                     | 209 | Inductor                   | LCTA680J3225 | R                                     | 105                 |  | RS1/16S683J |
| L                                     | 210 | Coil                       | CTB1103      | R                                     | 107                 |  | RS1/16S222J |
| L                                     | 231 | Inductor                   | LAU3R3J      | R                                     | 152                 |  | RS1/16S393J |
| T                                     | 31  | Coil                       | CTE1116      | R                                     | 155                 |  | RS1/16S393J |
| TC                                    | 1   | Trimmer                    | CCL1019      | R                                     | 157                 |  | RS1/10S223J |
| TC                                    | 2   | Trimmer                    | CCL1019      |                                       |                     |  |             |
| TC                                    | 3   | Trimmer                    | CCL1019      | R                                     | 160                 |  | RS1/16S222J |
| CF                                    | 25  | Ceramic Filter             | CTF1292      | R                                     | 161                 |  | RS1/16S563J |
| CF                                    | 51  | Ceramic Filter             | CTF1292      | R                                     | 162                 |  | RS1/16S225J |
| CF                                    | 52  | Ceramic Filter             | CTF1292      | R                                     | 163                 |  | RS1/16S222J |
| CF                                    | 53  | Ceramic Filter             | CTF1292      | R                                     | 164                 |  | RS1/16S823J |
| CF                                    | 230 | Crystal Filter             | CTF1262      |                                       |                     |  |             |
| CF                                    | 232 | Ceramic Filter             | CTF1348      | R                                     | 165                 |  | RS1/16S102J |
| X                                     | 151 | Radiator 918.5Hz           | CSS1365      | R                                     | 201                 |  | RS1/16S103J |
| X                                     | 231 | Crystal Resonator 10.26MHz | CSS1111      | R                                     | 202                 |  | RS1/16S103J |
|                                       |     |                            |              | R                                     | 203                 |  | RS1/16S225J |
|                                       |     |                            |              | R                                     | 204                 |  | RS1/16S472J |
|                                       |     |                            |              |                                       |                     |  |             |
|                                       |     |                            |              | R                                     | 205                 |  | RS1/16S471J |
|                                       |     |                            |              | R                                     | 206                 |  | RS1/16S220J |
|                                       |     |                            |              | R                                     | 207                 |  | RS1/16S101J |
|                                       |     |                            |              | R                                     | 208                 |  | RS1/16S102J |
|                                       |     |                            |              | R                                     | 210                 |  | RS1/16S125J |

| ====Circuit Symbol and No.==Part Name | Part No.     | ====Circuit Symbol and No.==Part Name  | Part No.        |
|---------------------------------------|--------------|--|-----------------|
| R 211                                 | RS1/16S223J  | C 157  | CEAL3R3M50      |
| R 214                                 | RS1/16S393J  | C 158  | CKSYB474K16     |
| R 215                                 | RS1/16S104J  | C 159  | CEAL220M6R3     |
| R 230                                 | RS1/16S0R0J  | C 160  | CKSQYB104K16    |
| R 231                                 | RS1/16S242J  | C 161  | CKSQYB104K16    |
| R 232                                 | RS1/16S473J  | C 162  | CEAL3R3M50      |
| R 237                                 | RS1/16S103J  | C 163  | CKSRYB102K50    |
| R 238                                 | RS1/16S104J  | C 165  | CCSRCH100D50    |
| R 239                                 | RS1/16S104J  | C 201  | CKSRYB103K25    |
| R 240                                 | RS1/16S103J  | C 202  | CCSRCH100D50    |
| R 241                                 | RS1/16S202J  | C 203  | CKSRYB332K50    |
| R 243                                 | RS1/16S123J  | C 204  | CKSQYB473K16    |
| R 244                                 | RS1/16S103J  | C 205  | CKSQYB473K16    |
| R 246                                 | RS1/16S0R0J  | C 206  | CKSRYB103K25    |
| R 247                                 | RS1/10S303J  | C 207  | CCSRCH120J50    |
| R 248                                 | RS1/16S0R0J  | C 211  | CCSRCH560J50    |
| R 250                                 | RS1/16S0R0J  | C 212  | CEAL680M10      |
| CAPACITORS                            |              | C 213  | CKSRYB103K25    |
| C 1                                   | CCSRCH220J50 | C 214  | CKSQYB225K10    |
| C 2                                   | CKSRYB222K50 | C 215  | CCSRCH680J50    |
| C 3                                   | CCSRCH4R0D50 | C 216  | CCSRCH101J50    |
| C 5                                   | CKSRYB222K50 | C 217  | CEAL2R2M50      |
| C 6                                   | CKSQYB473K16 | C 219  | CKSRYB223K25    |
| C 7                                   | CKSQYB473K16 | C 220  | CKSRYB103K25    |
| C 8                                   | CKSQYB104K16 | C 221  | CKSRYB103K25    |
| C 9                                   | CKSRYB222K50 | C 230  | CKSQYB104K16    |
| C 10                                  | CEAL1R0M50   | C 231  | CCSRCH330J50    |
| C 11                                  | CCSRCH470J50 | C 232  | CCSRCH150J50    |
| C 12                                  | CCSRCJ3R0C50 | C 233  | CKSRYB103K25    |
| C 13                                  | CKSRYB222K50 | C 234  | CEJA330M10      |
| C 15                                  | CCSRCJ3R0D50 | C 235  | CKSRYB332K50    |
| C 17                                  | CCSRCH120J50 | C 236  | CKSQYB473K16    |
| C 18                                  | CKSRYB103K25 | C 237  | CCSRTH180J50    |
| C 19                                  | CCSRCH120J50 | C 239  | CKSRYB103K25    |
| C 20                                  | CKSRYB222K50 | C 240  | CKSYB104K16     |
| C 21                                  | CEAL100M16   | C 241  | CKSQYB104K16    |
| C 22                                  | CCSRRH100D50 | C 242  | CEALR47M50      |
| C 23                                  | CCSRRH150J50 | C 244  | CKSQYB473K16    |
| C 24                                  | CCSRCH471J50 | C 245  | CKSQYB103K25    |
| C 30                                  | CCSRRH201J50 | C 248  | CKSQYB334K16    |
| C 31                                  | CKSRYB103K25 | C 250  | CCSRCJ3R0C50    |
| C 32                                  | CKSQYB473K16 | <div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 5px;">A</div> <div> Unit Number : CWM7090<br/> Unit Name : Main Unit </div> </div> |                 |
| C 33                                  | CCSRCH220J50 |  |                 |
| C 34                                  | CCSRCH4R0D50 | MISCELLANEOUS  |                 |
| C 41                                  | CKSQYB104K16 | IC 201   | IC              |
| C 51                                  | CKSRYB223K25 | IC 202   | IC              |
| C 52                                  | CKSRYB103K25 | IC 203   | IC              |
| C 54                                  | CCSRCH470J50 | IC 204   | IC              |
| C 55                                  | CKSQYB223K25 | IC 205   | IC              |
| C 56                                  | CKSQYB104K16 | IC 601   | IC              |
| C 57                                  | CKSRYB472K50 | IC 602   | IC              |
| C 58                                  | CEJA330M10   | IC 681   | IC              |
| C 59                                  | CKSRYB103K25 | IC 701   | IC              |
| C 61                                  | CCSRCH270J50 | IC 702   | IC              |
| C 62                                  | CKSRYB103K25 | IC 703   | IC              |
| C 63                                  | CEALR22M50   | IC 781   | IC              |
| C 65                                  | CKSQYB104K16 | Q 201  | Chip Transistor |
| C 101                                 | CEALNP100M10 | Q 202  | Transistor      |
| C 102                                 | CKSRYB182K50 | Q 203  | Transistor      |
| C 103                                 | CKSQYB682K50 | Q 204  | Chip Transistor |
| C 104                                 | CEAL2R2M50   | Q 205  | Chip Transistor |
| C 105                                 | CKSRYB103K25 | Q 206  | Chip Transistor |
| C 106                                 | CCSRCH151J50 | Q 301  | Chip Transistor |
| C 107                                 | CKSRYB103K25 | Q 302  | Transistor      |
| C 151                                 | CKSRYB562K25 |  |                 |
| C 152                                 | CKSQYB104K16 |  |                 |
| C 153                                 | CEAL3R3M50   |  |                 |
| C 154                                 | CKSQYB104K16 |  |                 |

# KEX-M8406ZT,M8406ZT-91,M9406ZT,M9406ZT-91

| ====Circuit Symbol and No.===Part Name |     |                 | Part No.   | ====Circuit Symbol and No.===Part Name |     |                            | Part No.      |
|--|-----|-----------------|------------|--|-----|----------------------------|---------------|
| Q                                      | 303 | Transistor      | DTC144TK   | D                                      | 334 | Diode                      | MA152WK       |
| Q                                      | 323 | Transistor      | 2SD2318F5  | D                                      | 354 | Diode                      | UDZ20(B)      |
| Q                                      | 331 | Transistor      | 2SB1185    | D                                      | 355 | Diode                      | HZU8R2(B3)    |
| Q                                      | 332 | Transistor      | IMX1       | D                                      | 501 | Diode                      | UDZS8R2(B)    |
| Q                                      | 335 | Transistor      | DTB123EK   | D                                      | 502 | Diode                      | MA153         |
| Q                                      | 336 | Transistor      | DTB123EK   | D                                      | 571 | Diode                      | 1SS355        |
| Q                                      | 337 | Transistor      | IMX1       | D                                      | 591 | Diode                      | UDZS10(B)     |
| Q                                      | 357 | Transistor      | DTC114EK   | D                                      | 601 | Diode                      | 1SS355        |
| Q                                      | 358 | Transistor      | DTA114EK   | D                                      | 656 | Diode                      | 1SS355        |
| Q                                      | 359 | Transistor      | DTC114EK   | D                                      | 657 | Diode                      | 1SS355        |
| Q                                      | 360 | Transistor      | DTA114EK   | D                                      | 658 | Diode                      | 1SS355        |
| Q                                      | 368 | Chip Transistor | 2SC2712    | D                                      | 659 | Diode                      | 1SS355        |
| Q                                      | 501 | Transistor      | 2SA1162    | D                                      | 660 | Diode                      | 1SS355        |
| Q                                      | 521 | Transistor      | 2SB1185    | D                                      | 681 | Diode                      | UDZ18(B)      |
| Q                                      | 522 | Transistor      | 2SB1185    | D                                      | 682 | Diode                      | UDZ18(B)      |
| Q                                      | 525 | Transistor      | 2SD1767    | D                                      | 771 | Diode                      | HZU4LL(C)     |
| Q                                      | 526 | Chip Transistor | 2SC2712    | D                                      | 781 | Diode                      | UDZS10(B)     |
| Q                                      | 527 | Transistor      | 2SA1797    | D                                      | 782 | Diode                      | UDZS10(B)     |
| Q                                      | 528 | Transistor      | 2SA1797    | D                                      | 783 | Diode                      | UDZS10(B)     |
| Q                                      | 529 | Transistor      | 2SA1162    | D                                      | 784 | Diode                      | UDZS10(B)     |
| Q                                      | 530 | Transistor      | 2SA1162    | L                                      | 201 | Inductor                   | LCTB4R7K3216  |
| Q                                      | 531 | Transistor      | IMD3A      | L                                      | 202 | Inductor                   | LCTA4R7J3225  |
| Q                                      | 551 | Transistor      | 2SA1797    | L                                      | 203 | Inductor                   | LCTA4R7J2520  |
| Q                                      | 552 | Transistor      | 2SA1162    | L                                      | 204 | Inductor                   | LCTA4R7J3225  |
| Q                                      | 553 | Transistor      | IMD3A      | L                                      | 205 | Inductor                   | LCTB6R8K3216  |
| Q                                      | 571 | Transistor      | 2SA1797    | L                                      | 206 | Inductor                   | LCTB6R8K3216  |
| Q                                      | 572 | Transistor      | 2SA1797    | L                                      | 207 | Inductor                   | LCTB6R8K3216  |
| Q                                      | 573 | Transistor      | 2SA1797    | L                                      | 208 | Inductor                   | LCTA4R7J3225  |
| Q                                      | 574 | Transistor      | 2SA1162    | L                                      | 209 | Inductor                   | LCTA561J4532  |
| Q                                      | 575 | Transistor      | 2SA1162    | L                                      | 211 | Inductor                   | LCTA2R2J2520  |
| Q                                      | 576 | Transistor      | 2SA1162    | L                                      | 212 | Inductor                   | LCTA101J3225  |
| Q                                      | 577 | Transistor      | DTC123YK   | L                                      | 213 | Inductor                   | CTF1305       |
| Q                                      | 578 | Transistor      | DTA114EK   | L                                      | 251 | Inductor                   | LCTA101J2520  |
| Q                                      | 601 | Transistor      | DTA144EK   | L                                      | 252 | Inductor                   | LCTB2R2K2125  |
| Q                                      | 602 | Transistor      | 2SA1162    | L                                      | 253 | Inductor                   | LCTB2R2K2125  |
| Q                                      | 603 | Transistor      | DTA114EK   | L                                      | 301 | Coil 350μH                 | CTH1092       |
| Q                                      | 607 | Chip Transistor | 2SC2712    | L                                      | 601 | Inductor                   | LCTB100K3216  |
| Q                                      | 608 | Transistor      | DTA114EK   | L                                      | 602 | Inductor                   | LCTB100K3216  |
| Q                                      | 701 | Transistor      | IMH4       | L                                      | 603 | Inductor                   | LCTB100K3216  |
| Q                                      | 702 | Transistor      | IMX1       | L                                      | 605 | Inductor                   | CTF1305       |
| Q                                      | 703 | Transistor      | IMH4       | L                                      | 607 | Inductor                   | CTF1305       |
| Q                                      | 704 | Transistor      | IMH4       | L                                      | 608 | Inductor                   | CTF1305       |
| Q                                      | 705 | Transistor      | IMH4       | L                                      | 609 | Inductor                   | CTF1305       |
| Q                                      | 706 | Transistor      | IMH4       | CG                                     | 201 | Surge Protector            | DSP-201M-A21F |
| Q                                      | 707 | Transistor      | IMH4       | CG                                     | 202 | Surge Protector            | DSP-201M-A21F |
| Q                                      | 708 | Transistor      | 2SC2412K   | X                                      | 201 | Crystal Resonator 7.200MHz | CSS1379       |
| Q                                      | 709 | Transistor      | IMH4       | X                                      | 202 | Crystal Resonator 4.332MHz | CSS1056       |
| Q                                      | 710 | Transistor      | IMH4       | X                                      | 601 | Radiator 10.00MHz          | CSS1428       |
| D                                      | 201 | Diode           | 1SS355     | VR                                     | 201 | Semi-fixed 10kΩ(B)         | CCP1396       |
| D                                      | 202 | Diode           | 1SV241     | VR                                     | 202 | Semi-fixed 2.2kΩ(B)        | CCP1392       |
| D                                      | 203 | Diode           | 1SV241     | FU                                     | 301 | Fuse 5A                    | CEK1195       |
| D                                      | 204 | Diode           | 1SS355     |  |     | FM/AM Tuner Unit           | CWE1543       |
| D                                      | 205 | Diode           | MA152WK    |  |     |                            |               |
| D                                      | 206 | Diode           | DAP202K    |  |     |                            |               |
| D                                      | 301 | Diode           | ERC05-10B  |  |     |                            |               |
| D                                      | 302 | Diode           | HZU8R2(B1) | R                                      | 201 |                            | RS1/10S103J   |
| D                                      | 303 | Diode           | HZU8R2(B1) | R                                      | 204 |                            | RS1/10S102J   |
| D                                      | 304 | Diode           | HZU8R2(B1) | R                                      | 205 |                            | RS1/10S471J   |
| D                                      | 306 | Diode           | 1SS355     | R                                      | 206 |                            | RS1/10S105J   |
| D                                      | 307 | Diode           | 1SS355     | R                                      | 207 |                            | RS1/10S472J   |
| D                                      | 321 | Diode           | ERA15-02VH | R                                      | 208 |                            | RS1/10S750J   |
| D                                      | 322 | Diode           | UDZS5R6(B) | R                                      | 209 |                            | RS1/10S750J   |
| D                                      | 331 | Diode           | 1SS355     | R                                      | 210 |                            | RS1/10S225J   |
| D                                      | 332 | Diode           | HZU8R2(B1) | R                                      | 211 |                            | RS1/10S225J   |
| D                                      | 333 | Diode           | 1SS355     | R                                      | 212 |                            | RS1/10S225J   |

## RESISTORS

| ====Circuit Symbol and No.====Part Name | Part No.    | ====Circuit Symbol and No.====Part Name | Part No.    |
|---|-------------|---|-------------|
| R 213                                   | RS1/10S225J | R 279                                   | RS1/10S102J |
| R 214                                   | RS1/10S225J | R 280                                   | RS1/10S102J |
| R 215                                   | RS1/10S225J | R 281                                   | RS1/10S104J |
| R 216                                   | RS1/10S103J | R 282                                   | RS1/10S562J |
| R 217                                   | RS1/10S102J | R 283                                   | RS1/10S104J |
| R 218                                   | RS1/10S103J | R 284                                   | RS1/10S333J |
| R 219                                   | RS1/10S103J | R 286                                   | RS1/10S681J |
| R 220                                   | RS1/10S104J | R 287                                   | RS1/10S222J |
| R 221                                   | RS1/10S473J | R 288                                   | RS1/10S102J |
| R 222                                   | RS1/10S473J | R 289                                   | RS1/10S562J |
| R 223                                   | RS1/10S224J | R 290                                   | RS1/10S684J |
| R 224                                   | RS1/10S103J | R 291                                   | RS1/10S222J |
| R 225                                   | RS1/10S334J | R 292                                   | RS1/10S222J |
| R 226                                   | RS1/10S101J | R 301                                   | RS1/10S104J |
| R 227                                   | RS1/10S101J | R 302                                   | RS1/10S104J |
| R 228                                   | RS1/10S104J | R 303                                   | RS1/10S104J |
| R 229                                   | RS1/10S104J | R 304                                   | RS1/8S222J  |
| R 230                                   | RS1/10S103J | R 305                                   | RS1/8S222J  |
| R 231                                   | RS1/10S182J | R 306                                   | RS1/8S472J  |
| R 232                                   | RS1/10S683J | R 307                                   | RS1/8S472J  |
| R 233                                   | RS1/10S153J | R 308                                   | RS1/10S473J |
| R 234                                   | RS1/10S103J | R 322                                   | RS1/10S223J |
| R 235                                   | RS1/10S561J | R 325                                   | RS1/10S101J |
| R 236                                   | RS1/10S472J | R 331                                   | RS1/10S223J |
| R 237                                   | RS1/10S682J | R 332                                   | RS1/10S102J |
| R 238                                   | RS1/10S102J | R 333                                   | RS1/10S331J |
| R 239                                   | RS1/10S222J | R 334                                   | RS1/10S103J |
| R 240                                   | RS1/10S682J | R 335                                   | RS1/10S471J |
| R 241                                   | RS1/10S472J | R 336                                   | RS1/10S102J |
| R 242                                   | RS1/10S331J | R 343                                   | RS1/10S472J |
| R 243                                   | RS1/10S102J | R 366                                   | RS1/8S221J  |
| R 244                                   | RS1/10S102J | R 370                                   | RS1/10S104J |
| R 245                                   | RS1/10S473J | R 371                                   | RS1/10S473J |
| R 246                                   | RS1/10S562J | R 501                                   | RS1/8S222J  |
| R 247                                   | RS1/10S222J | R 502                                   | RS1/10S103J |
| R 248                                   | RS1/10S562J | R 503                                   | RS1/10S103J |
| R 249                                   | RS1/10S222J | R 504                                   | RS1/10S123J |
| R 250                                   | RS1/10S222J | R 505                                   | RS1/10S103J |
| R 251                                   | RS1/10S102J | R 506                                   | RS1/10S103J |
| R 252                                   | RS1/10S473J | R 521                                   | RS1/4S2R2J  |
| R 253                                   | RS1/10S472J | R 522                                   | RS1/4S2R2J  |
| R 254                                   | RS1/10S473J | R 523                                   | RS1/4S2R2J  |
| R 255                                   | CCN1121     | R 524                                   | RS1/4S2R2J  |
| R 256                                   | RS1/10S0R0J | R 527                                   | RS1/10S103J |
| R 258                                   | RS1/10S393J | R 528                                   | RS1/4S221J  |
| R 259                                   | RS1/10S272J | R 531                                   | RS1/10S2R2J |
| R 260                                   | RS1/10S392J | R 532                                   | RS1/10S2R2J |
| R 261                                   | RS1/10S222J | R 533                                   | RS1/10S471J |
| R 262                                   | RS1/10S392J | R 534                                   | RS1/10S471J |
| R 263                                   | RS1/10S152J | R 535                                   | RS1/10S822J |
| R 264                                   | RS1/10S332J | R 536                                   | RS1/10S822J |
| R 265                                   | RS1/10S473J | R 537                                   | RS1/10S103J |
| R 266                                   | RS1/10S223J | R 538                                   | RS1/10S102J |
| R 267                                   | RS1/10S184J | R 539                                   | RS1/10S102J |
| R 268                                   | RS1/10S104J | R 551                                   | RS1/10S2R2J |
| R 269                                   | RS1/10S123J | R 552                                   | RS1/10S471J |
| R 270                                   | RS1/10S105J | R 553                                   | RS1/10S822J |
| R 271                                   | RS1/10S822J | R 554                                   | RS1/10S103J |
| R 272                                   | RS1/10S822J | R 555                                   | RS1/10S102J |
| R 273                                   | RS1/10S222J | R 571                                   | RS1/10S2R2J |
| R 274                                   | RS1/10S102J | R 572                                   | RS1/10S2R2J |
| R 275                                   | RS1/10S102J | R 573                                   | RS1/10S2R2J |
| R 276                                   | RS1/10S102J | R 574                                   | RS1/10S471J |
| R 277                                   | RS1/10S102J | R 575                                   | RS1/10S471J |
| R 278                                   | RS1/10S102J | R 576                                   | RS1/10S471J |

KEX-M8406ZT,M8406ZT-91,M9406ZT,M9406ZT-91

| ====Circuit Symbol and No.===Part Name | Part No.    | ====Circuit Symbol and No.===Part Name | Part No.     |
|--|-------------|--|--------------|
| R 577                                  | RS1/10S822J | R 698                                  | RS1/10S0R0J  |
| R 578                                  | RS1/10S822J | R 701                                  | RS1/10S392J  |
| R 579                                  | RS1/10S822J | R 702                                  | RS1/10S392J  |
| R 580                                  | RS1/10S103J | R 703                                  | RS1/10S224J  |
| R 581                                  | RS1/10S102J | R 704                                  | RS1/10S224J  |
| R 582                                  | RS1/10S102J | R 705                                  | RS1/10S224J  |
| R 583                                  | RS1/10S102J | R 706                                  | RS1/10S222J  |
| R 591                                  | RS1/8S222J  | R 707                                  | RS1/10S222J  |
| R 592                                  | RS1/8S472J  | R 708                                  | RS1/10S822J  |
| R 601                                  | RS1/10S104J | R 709                                  | RS1/10S102J  |
| R 602                                  | RS1/10S102J | R 710                                  | RS1/10S102J  |
| R 604                                  | RS1/10S102J | R 711                                  | RS1/10S222J  |
| R 607                                  | RS1/10S102J | R 712                                  | RS1/10S222J  |
| R 608                                  | RS1/10S102J | R 713                                  | RS1/10S102J  |
| R 609                                  | RS1/10S102J | R 715                                  | RS1/10S272J  |
| R 610                                  | RS1/10S681J | R 716                                  | RS1/10S272J  |
| R 611                                  | RS1/10S102J | R 717                                  | RS1/10S222J  |
| R 612                                  | RS1/10S102J | R 718                                  | RS1/10S222J  |
| R 613                                  | RS1/10S473J | R 719                                  | RS1/10S103J  |
| R 614                                  | RS1/10S473J | R 720                                  | RS1/10S103J  |
| R 615                                  | RS1/10S103J | R 721                                  | RS1/10S393J  |
| R 616                                  | RS1/10S103J | R 722                                  | RS1/10S393J  |
| R 617                                  | RS1/10S472J | R 723                                  | RS1/10S823J  |
| R 618                                  | RA3C103J    | R 724                                  | RS1/10S823J  |
| R 620                                  | RS1/10S0R0J | R 725                                  | RS1/10S102J  |
| R 621 1kΩ                              | CCN1120     | R 726                                  | RS1/10S102J  |
| R 622                                  | RS1/10S473J | R 727                                  | RS1/10S473J  |
| R 623                                  | RS1/10S473J | R 728                                  | RS1/10S473J  |
| R 624                                  | RS1/10S473J | R 729                                  | RS1/10S222J  |
| R 625                                  | RS1/10S104J | R 730                                  | RS1/10S222J  |
| R 626                                  | RS1/10S223J | R 731                                  | RS1/10S682J  |
| R 627 1kΩ                              | CCN1120     | R 732                                  | RS1/10S682J  |
| R 628 47kΩ                             | CCN1131     | R 735                                  | RS1/10S222J  |
| R 629                                  | RS1/10S102J | R 736                                  | RS1/10S222J  |
| R 630                                  | RA3C102J    | R 737                                  | RS1/10S222J  |
| R 631                                  | RS1/10S681J | R 738                                  | RS1/10S222J  |
| R 632                                  | RS1/10S102J | R 739                                  | RS1/10S470J  |
| R 633                                  | RS1/10S102J | R 740                                  | RS1/10S470J  |
| R 634                                  | RS1/10S473J | R 741                                  | RS1/10S470J  |
| R 635                                  | RS1/10S103J | R 742                                  | RS1/10S470J  |
| R 641                                  | RS1/10S473J | R 743                                  | RS1/10S102J  |
| R 644                                  | RS1/10S102J | R 744                                  | RS1/10S102J  |
| R 645                                  | RS1/10S103J | R 745                                  | RS1/10S473J  |
| R 651                                  | RS1/10S102J | R 746                                  | RS1/10S473J  |
| R 652                                  | RS1/10S102J | R 747                                  | RS1/10S473J  |
| R 653                                  | RS1/10S102J | R 748                                  | RS1/10S473J  |
| R 654 1kΩ                              | CCN1120     | R 771                                  | RS1/10S103J  |
| R 655                                  | RS1/10S102J | R 781                                  | RS1/10S223J  |
| R 656                                  | RA3C102J    | R 784                                  | RS1/10S470J  |
| R 657                                  | RS1/10S102J | R 785                                  | RS1/10S470J  |
| R 658                                  | RS1/10S102J | R 786                                  | RS1/10S470J  |
| R 659 47kΩ                             | CCN1131     | R 787                                  | RS1/10S470J  |
| R 660                                  | RS1/10S473J | R 788                                  | RS1/10S272J  |
| R 661                                  | RS1/10S473J | R 789                                  | RS1/10S272J  |
| R 662                                  | RS1/10S473J | R 790                                  | RS1/10S822J  |
| R 663                                  | RS1/10S473J | R 791                                  | RS1/10S822J  |
| R 664                                  | RS1/10S473J | CAPACITORS                             |              |
| R 665                                  | RS1/10S473J | C 201                                  | CKSQYB222K50 |
| R 666                                  | RS1/10S102J | C 202                                  | CKSQYB103K50 |
| R 667                                  | RS1/10S102J | C 203                                  | CCSQCH471J50 |
| R 681                                  | RS1/4S101J  | C 204                                  | CKSQYB222K50 |
| R 682                                  | RS1/4S101J  | C 205                                  | CKSQYB222K50 |
| R 683                                  | RS1PMF680J  |  |              |
| R 693                                  | RS1/10S473J | C 206                                  | CKSQYB222K50 |
| R 697                                  | RS1/10S473J | C 207                                  | CKSQYB222K50 |
|  |             | C 208                                  | CKSQYB103K50 |
|  |             | C 209                                  | CKSQYB222K50 |
|  |             | C 210                                  | CEJA100M16   |

# KEX-M8406ZT,M8406ZT-91,M9406ZT,M9406ZT-91

| ====Circuit Symbol and No.====Part Name | Part No.     | ====Circuit Symbol and No.====Part Name | Part No.     |
|---|--------------|---|--------------|
| C 211                                   | CKSQYB103K50 | C 282                                   | CKSQYB334K16 |
| C 212                                   | CKSQYB472K50 | C 283                                   | CKSQYB473K50 |
| C 213                                   | CKSQYB392K50 | C 284                                   | CKSQYB473K50 |
| C 214                                   | CKSQYB103K50 | C 290                                   | CKSQYB473K50 |
| C 215                                   | CKSQYB103K50 | C 294                                   | CKSQYB222K50 |
| C 216                                   | CEJA100M16   | C 301                                   | 2200μF/16V   |
| C 217                                   | CKSQYB473K50 | C 302                                   | CCH1186      |
| C 218                                   | CEJA2R2M50   | C 303                                   | CKSQYB473K50 |
| C 219                                   | CKSQYB102K50 | C 304                                   | CEAL1R0M50   |
| C 220                                   | CKSQYB103K50 | C 305                                   | CEAL1R0M50   |
| C 221                                   | CKSQYB473K50 | C 306                                   | CKSQYB102K50 |
| C 223                                   | CKSQYB103K50 | C 323                                   | CKSQYB473K50 |
| C 224                                   | 4.7μF/10V    | C 324                                   | CEAL1R0M50   |
| C 225                                   | CKSQYB154K16 | C 325                                   | CKSQYB103K50 |
| C 226                                   | CKSQYB103K50 | C 326                                   | CEJA330M10   |
| C 227                                   | CSZSR220M10  | C 331                                   | CKSQYB103K50 |
| C 228                                   | CKSQYB103K50 | C 332                                   | CEJA101M16   |
| C 229                                   | CKSQYB103K50 | C 333                                   | CKSQYB103K50 |
| C 230                                   | CSZSR220M10  | C 334                                   | CKSQYB473K50 |
| C 231                                   | CEJA101M10   | C 335                                   | CKSQYB473K50 |
| C 232                                   | CKSQYB473K50 | C 354                                   | CKSQYB102K50 |
| C 233                                   | CKSQYB223K50 | C 356                                   | 1000μF/16V   |
| C 234                                   | CKSQYB223K50 | C 501                                   | CCH1149      |
| C 235                                   | CCSQCH101J50 | C 502                                   | CKSQYB102K50 |
| C 236                                   | CKSQYB103K50 | C 503                                   | CEAL1R0M50   |
| C 237                                   | CKSQYB103K50 | C 521                                   | CEAL1R0M50   |
| C 239                                   | CKSYB473K50  | C 522                                   | CKSQYB472K50 |
| C 240                                   | CKSQYB102K50 | C 523                                   | CEJA101M16   |
| C 241                                   | CCSQCH150J50 | C 524                                   | CKSQYB103K50 |
| C 242                                   | CCSQCH150J50 | C 525                                   | CKSQYB102K50 |
| C 243                                   | CKSQYB103K50 | C 551                                   | CKSQYB102K50 |
| C 244                                   | 4.7μF/10V    | C 571                                   | CKSQYB102K50 |
| C 245                                   | CCH1280      | C 572                                   | CKSQYB102K50 |
| C 247                                   | CKSQYB103K50 | C 573                                   | CKSQYB102K50 |
| C 248                                   | CKSQYB473K50 | C 591                                   | CKSQYB102K50 |
| C 249                                   | CKSQYB473K50 | C 603                                   | CKSQYB103K50 |
| C 250                                   | CKSQYB473K50 | C 604                                   | CKSQYB103K50 |
| C 251                                   | CKSQYB334K16 | C 605                                   | CKSQYB102K50 |
| C 252                                   | CKSQYB102K50 | C 606                                   | CKSQYB473K50 |
| C 253                                   | CKSQYB392K50 | C 607                                   | CKSQYB473K50 |
| C 254                                   | CKSQYB682K50 | C 608                                   | CKSQYB102K50 |
| C 255                                   | CKSQYB473K50 | C 612                                   | CEAL4R7M35   |
| C 256                                   | CEJA3R3M50   | C 614                                   | CKSQYB105K16 |
| C 257                                   | CKSQYB333K50 | C 651                                   | CKSQYB103K50 |
| C 258                                   | CEJANP1R0M50 | C 652                                   | CKSQYB103K50 |
| C 259                                   | CQMA683J50   | C 653                                   | CKSQYB103K50 |
| C 260                                   | CQMA333J50   | C 654                                   | CKSQYB102K50 |
| C 261                                   | CQMA333J50   | C 655                                   | CKSQYB102K50 |
| C 262                                   | CQMA333J50   | C 656                                   | CKSQYB102K50 |
| C 263                                   | CKSQYB393K50 | C 657                                   | CKSQYB102K50 |
| C 264                                   | CKSQYB682K50 | C 658                                   | CKSQYB103K50 |
| C 265                                   | CKSQYB473K50 | C 659                                   | CKSQYB103K50 |
| C 266                                   | CKSQYB473K50 | C 660                                   | CKSQYB103K50 |
| C 267                                   | CEAL4R7M35   | C 661                                   | CKSQYB102K50 |
| C 268                                   | CKSQYB104K50 | C 662                                   | CKSQYB102K50 |
| C 270                                   | CCSQCH220J50 | C 663                                   | CKSQYB102K50 |
| C 271                                   | CCSQCH220J50 | C 664                                   | CKSQYB102K50 |
| C 272                                   | CKSQYB223K50 | C 665                                   | CKSQYB102K50 |
| C 273                                   | CKSQYB104K50 | C 668                                   | CEJA101M6R3  |
| C 275                                   | CKSQYB104K50 | C 669                                   | CKSQYB473K50 |
| C 276                                   | CKSQYB105K16 | C 681                                   | CKSQYB103K50 |
| C 277                                   | CKSQYB104K50 | C 682                                   | CCSQCH221J50 |
| C 278                                   | CKSQYB472K50 | C 683                                   | CCSQCH221J50 |
| C 279                                   | CKSQYB103K50 | C 684                                   | CKSQYB102K50 |
| C 280                                   | CKSQYB103K50 | C 701                                   | CKSQYB105K16 |

| ====Circuit Symbol and No.====Part Name | Part No.     |
|---|--------------|
| C 703 2.2μF/50V                         | CCH1375      |
| C 704 2.2μF/50V                         | CCH1375      |
| C 705                                   | CKSQYB223K50 |
| C 706                                   | CKSQYB223K50 |
| C 707                                   | CKSQYB223K50 |
| C 709                                   | CKSQYB153K50 |
| C 710                                   | CKSQYB153K50 |
| C 711 2.2μF/50V                         | CCH1375      |
| C 712 2.2μF/50V                         | CCH1375      |
| C 713 4.7μF/35V                         | CCH1016      |
| C 714 4.7μF/35V                         | CCH1016      |
| C 715                                   | CCSQCH120J50 |
| C 716                                   | CCSQCH120J50 |
| C 717 4.7μF/35V                         | CCH1016      |
| C 718 4.7μF/35V                         | CCH1016      |
| C 719 4.7μF/35V                         | CCH1016      |
| C 720 4.7μF/35V                         | CCH1016      |
| C 721                                   | CCSQCH151J50 |
| C 722                                   | CCSQCH151J50 |
| C 723                                   | CCSQCH331J50 |
| C 724                                   | CCSQCH331J50 |
| C 725                                   | CKSQYB682K50 |
| C 726                                   | CKSQYB682K50 |
| C 727                                   | CKSQYB682K50 |
| C 728                                   | CKSQYB682K50 |
| C 771                                   | CEJA101M6R3  |
| C 772                                   | CKSQYB103K50 |
| C 773                                   | CEJA101M10   |
| C 774                                   | CKSQYB103K50 |
| C 775                                   | CKSQYB103K50 |
| C 776                                   | CKSQYB103K50 |
| C 777                                   | CEJA101M16   |
| C 778                                   | CKSQYB103K50 |
| C 781                                   | CKSQYB104K50 |
| C 782                                   | CEALNP4R7M16 |
| C 783                                   | CEALNP4R7M16 |
| C 784                                   | CEALNP4R7M16 |
| C 785                                   | CEALNP4R7M16 |
| C 786                                   | CCSQCH101J50 |
| C 787                                   | CCSQCH101J50 |
| C 788                                   | CCSQCH101J50 |
| C 789                                   | CCSQCH101J50 |
| C 790 4.7μF/50V                         | CCH1320      |
| C 791 4.7μF/50V                         | CCH1320      |

**G** Unit Number : CWM7104  
Unit Name : LCD Unit

#### MISCELLANEOUS

|         |              |
|---------|--------------|
| IC 951  | IC           |
| IL 951  | Lamp 8V100mA |
| IL 952  | Lamp 8V100mA |
| LCD 901 | LCD          |

#### RESISTORS

|       |      |
|-------|------|
| R 951 | 1kΩ  |
| R 952 | 22kΩ |
| R 953 |      |
| R 954 |      |
| R 955 |      |

R 956

#### CAPACITORS

|       |  |
|-------|--|
| C 951 |  |
| C 952 |  |
| C 953 |  |
| C 954 |  |

|          |
|----------|
| LC75874W |
| CEL1530  |
| CEL1530  |
| CAW1594  |

|             |
|-------------|
| CCN1120     |
| CCN1129     |
| RS1/10S433J |
| RS1/10S472J |
| RS1/10S472J |

RS1/10S472J

|              |
|--------------|
| CKSQYB104K50 |
| CCSQCH681J50 |
| CKSQYB104K50 |
| CKSQYB104K50 |

====Circuit Symbol and No.====Part Name Part No.  
**F** Unit Number : CWM7101  
Unit Name : Keyboard Unit

#### MISCELLANEOUS

|        |              |         |
|--------|--------------|---------|
| S 901  | Encoder      | CSD1055 |
| S 902  | Encoder      | CSD1057 |
| IL 901 | Lamp 8V 60mA | CEL1531 |
| IL 902 | Lamp 8V 60mA | CEL1531 |
| IL 903 | Lamp 8V 60mA | CEL1531 |
| IL 904 | Lamp 8V 60mA | CEL1531 |
| IL 905 | Lamp 8V 60mA | CEL1531 |
| IL 907 | Lamp 8V 60mA | CEL1531 |
| IL 909 | Lamp 8V 60mA | CEL1531 |
| IL 910 | Lamp 8V 60mA | CEL1531 |
| IL 912 | Lamp 8V 60mA | CEL1531 |
| IL 913 | Lamp 8V 60mA | CEL1531 |
| IL 914 | Lamp 8V 60mA | CEL1531 |
| IL 915 | Lamp 8V 60mA | CEL1531 |

#### RESISTORS

|       |    |             |
|-------|----|-------------|
| R 901 |    | RS1/10S3R3J |
| R 902 |    | RS1/10S3R3J |
| R 903 |    | RS1/10S3R3J |
| R 904 |    | RS1/10S3R3J |
| R 905 |    | RS1/10S3R3J |
| R 906 |    | RS1/10S3R3J |
| R 907 |    | RS1/10S1R5J |
| R 908 |    | RS1/10S2R2J |
| R 909 |    | RS1/10S1R5J |
| R 910 |    | RS1/10S2R2J |
| R 911 | 0Ω | CCN1110     |
| R 913 | 0Ω | CCN1110     |
| R 915 |    | RS1/10S0R0J |
| R 917 |    | RS1/10S0R0J |
| R 919 |    | RS1/10S0R0J |
| R 922 |    | RS1/10S0R0J |

**C** Unit Number : EWM1027  
Unit Name : Deck Unit

#### MISCELLANEOUS

|        |                    |          |
|--------|--------------------|----------|
| IC 251 | IC                 | HA12216F |
| IC 351 | IC                 | PA2020A  |
| Q 271  | Transistor         | 2SC4116  |
| Q 351  | Transistor         | 2SB1260  |
| Q 352  | Transistor         | 2SC4102  |
| D 351  | Diode              | 1SS355   |
| VR 301 | Semi-fixed 33kΩ(B) | CCP1280  |
| VR 302 | Semi-fixed 33kΩ(B) | CCP1280  |

#### RESISTORS

|       |  |             |
|-------|--|-------------|
| R 255 |  | RS1/16S181J |
| R 256 |  | RS1/16S181J |
| R 257 |  | RS1/16S183J |
| R 258 |  | RS1/16S183J |
| R 259 |  | RS1/16S133J |
| R 260 |  | RS1/16S133J |
| R 261 |  | RS1/16S274J |
| R 262 |  | RS1/16S274J |
| R 271 |  | RS1/16S183J |
| R 272 |  | RS1/8S0R0J  |
| R 273 |  | RS1/8S0R0J  |
| R 274 |  | RS1/8S0R0J  |
| R 275 |  | RS1/16S473J |
| R 276 |  | RS1/16S104J |
| R 277 |  | RS1/16S224J |

====Circuit Symbol and No.==Part Name

Part No.

R 278  
R 281  
R 282  
R 283  
R 284

RS1/16S104J  
RS1/8S0R0J  
RS1/8S0R0J  
RS1/8S0R0J  
RS1/8S0R0J

R 285  
R 288  
R 289  
R 291  
R 292

RS1/16S0R0J  
RS1/16S0R0J  
RS1/16S0R0J  
RS1/8S0R0J  
RS1/10S0R0J

R 293  
R 294  
R 321  
R 351  
R 352

RS1/10S0R0J  
RS1/10S0R0J  
RS1/8S0R0J  
RS1/16S102J  
RS1/16S102J

R 353  
R 354  
R 355  
R 356  
R 357

RS1/16S102J  
RS1/16S102J  
RS1/10S274J  
RS1/10S202J  
RS1/10S472J

R 358  
R 359  
R 360  
R 361  
R 362

RS1/10S103J  
RS1/10S103J  
RS1/10S102J  
RS1/10S622J  
RS1/8S181J

R 373  
R 374  
R 375  
R 401  
R 402

RS1/8S0R0J  
RS1/8S0R0J  
RS1/8S0R0J  
RS1/16S123J  
RS1/16S332J

R 403  
R 404

RS1/16S911J  
RS1/16S274J

## CAPACITORS

C 251  
C 252  
C 253  
C 254  
C 255

CKSRYB391K50  
CKSRYB391K50  
CKSRYB391K50  
CKSRYB391K50  
CKSRYB103K50

C 256  
C 271  
C 272  
C 301  
C 302

CKSRYB103K50  
CEJA1R0M50  
CKSQYB104K16  
CKSQYB104K16  
CKSQYB104K16

C 309  
C 310  
C 351  
C 352  
C 353

CKSQYB104K16  
CKSQYB104K16  
CKSYB224K25  
CKSQYB392K50  
CKSQYB103K50

C 354  
C 355  
C 356  
C 401  
C 402

CKSQYB103K50  
CKSYB104K50  
CKSQYB103K50  
CKSRYB472K50  
CKSYB334K25

C 403  
C 404  
C 405

CKSRYB223K25  
CKSRYB103K50  
CKSRYB333K16

====Circuit Symbol and No.==Part Name

Part No.

**D** Unit Number :  
Unit Name : PCB Unit

|     |   |                   |         |
|-----|---|-------------------|---------|
| L   | 1 | Inductor          | ETH0002 |
| S   | 1 | Switch (LOAD)     | ESG1004 |
| S   | 2 | Switch (70μs)     | ESG1004 |
| EGN | 1 | Photo-Interrupter | EGN1005 |

**E** Unit Number :  
Unit Name : Reel PCB

|     |   |                   |         |
|-----|---|-------------------|---------|
| EGN | 2 | Photo-Interrupter | EGN1006 |
| EGN | 3 | Photo-Interrupter | EGN1006 |

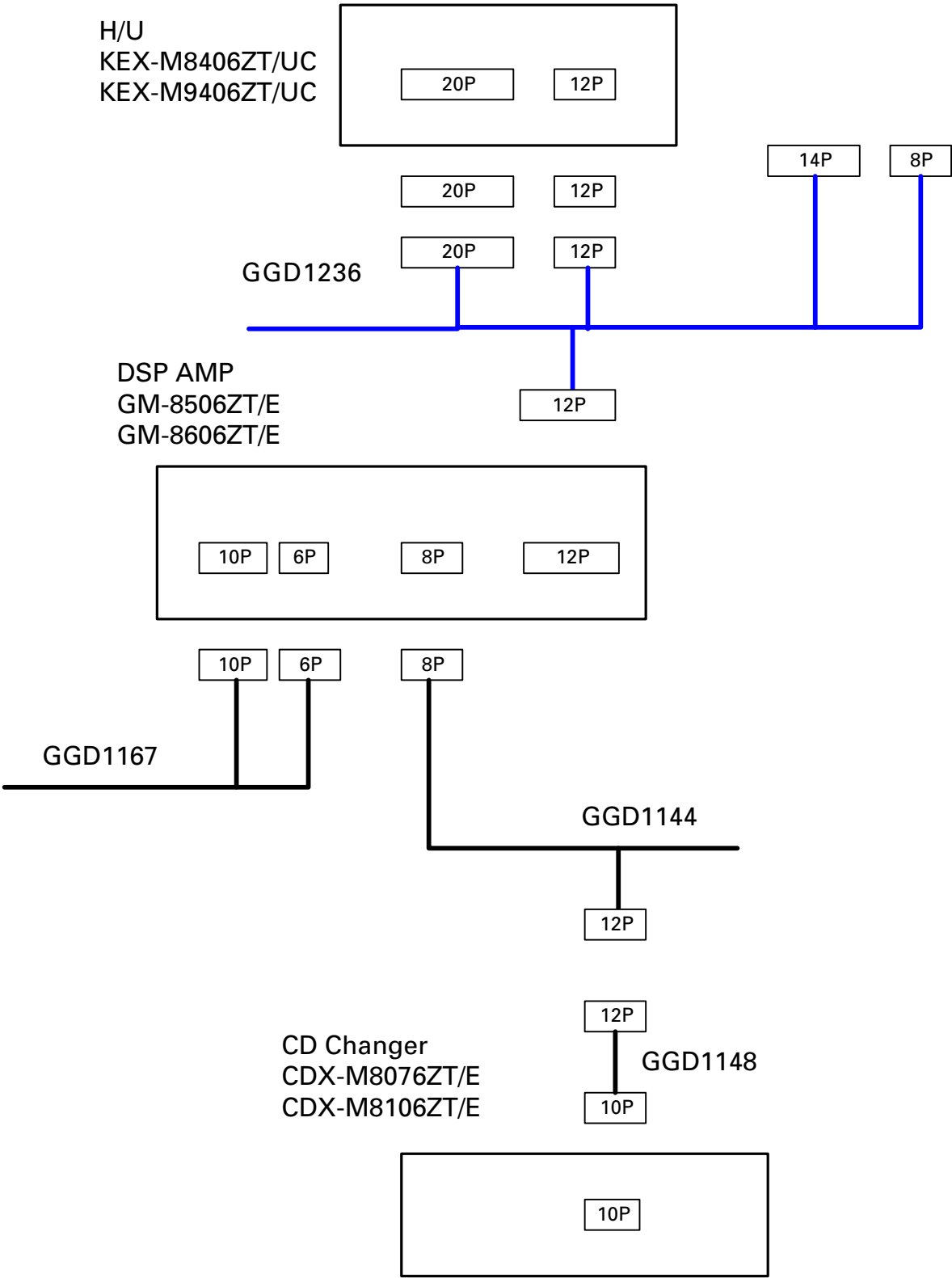
## Miscellaneous Parts List

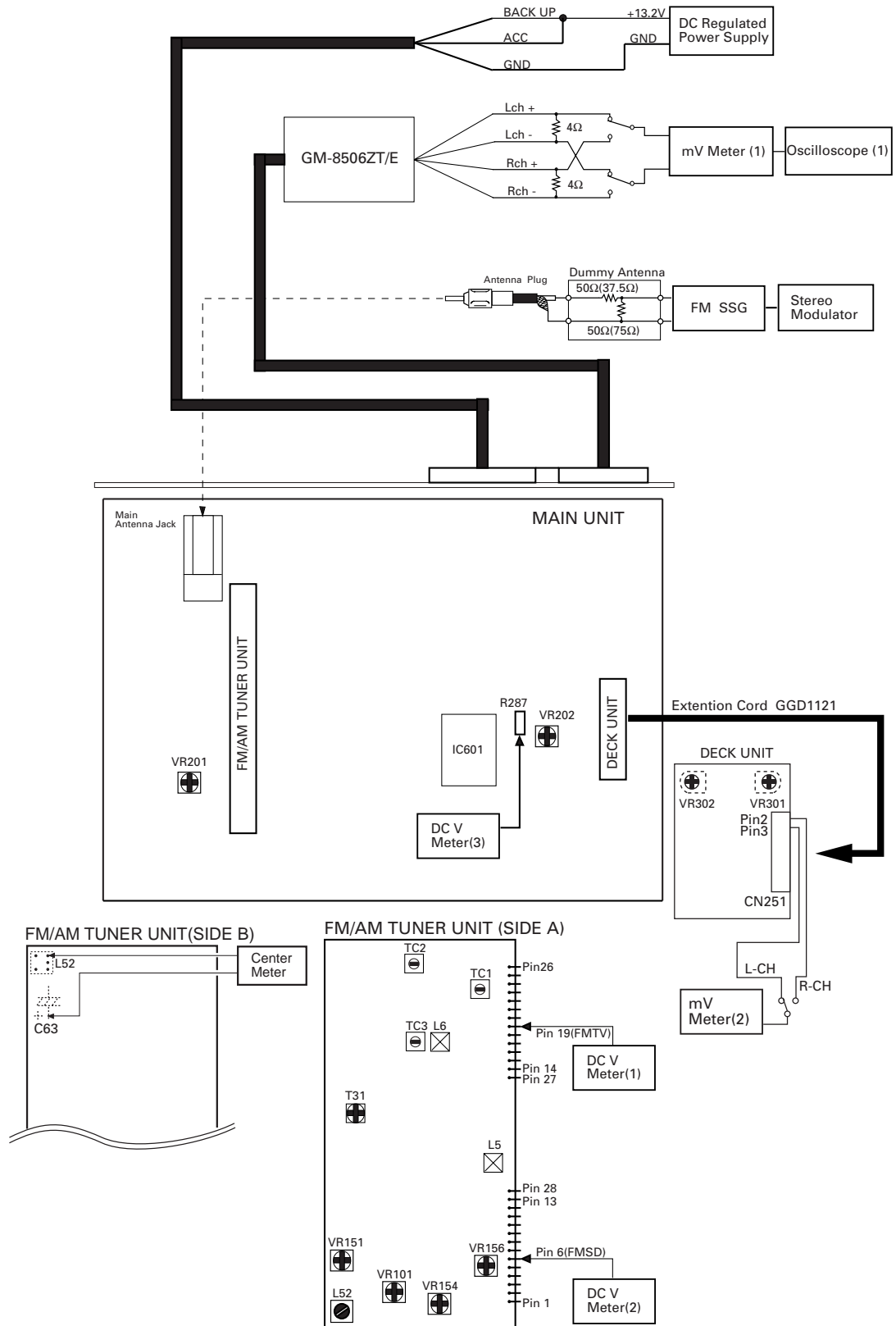
|    |   |                   |            |
|----|---|-------------------|------------|
| C  | 1 |                   | CEAL4R7M35 |
| M  | 1 | Motor Unit (Main) | EXA1499    |
| M  | 2 | Motor Unit (Sub)  | EXA1382    |
| HD | 1 | Head Assy         | EXA1594    |

6. ADJUSTMENT

6.1 TUNER/AUDIO ADJUSTMENT

● Connection Diagram





**FM ADJUSTMENT**

Modulation M: MONO MOD., 400Hz 30%(22.5kHz Dev.) or 400Hz 100%(75kHz Dev.)

S1: STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

S2: STEREO MOD., 1kHz, L or R=60%(40.5kHz+7.5kHz Dev.)

NOTE: Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

|                   | No. | FM SSG   |            | Displayed<br>Frequency(MHz) | Adjustment<br>Point | Adjustment Method<br>(Switch Position) |
|-------------------|-----|--|------------|-----------------------------|---------------------|--|
|                   |     | Frequency(MHz)   | Level(dBf) |                             |                     |  |
| TUN Volt          | 1   | .....  | .....      | 107.9                       | L5                  | DC V Meter(1) : 6V                     |
| Center<br>Meter   | 1   | 98.1 M   | 65-85      | 98.1                        | L52                 | Center Meter : 0                       |
| IFT               | 1   | 98.1 M   | 5-15       | 98.1                        | T31                 | mV Meter(1) : Maximum                  |
| ANT<br>Trimmer    | 1   | 98.1 M   | 5-15       | 98.1                        | TC1,TC2             | mV Meter(1) : Maximum                  |
| RF Coil           | 1   | 89.9 M   | 5-15       | 89.9                        | L6                  | mV Meter(1) : Maximum                  |
| RF<br>Trimmer     | 1   | 106.1 M  | 5-15       | 106.1                       | TC3                 | mV Meter(1) : Maximum                  |
| Separation        | 1   | 98.1 S1  | 65         | 98.1                        | VR101               | mV Meter(1) : Maximum                  |
| ARC<br>Separation | 1   | 98.1 S1  | 38         | 98.1                        | VR154               | mV Meter(1) : Separation 5dB           |
| Interstation      | 1   | 98.1 M   | 65         | 98.1                        | ---                 | mV Meter(1) : AdB                      |
| Noise             | 2   | 98.1 M   | -∞         | 98.1                        | VR151               | mV Meter(1) : A-20dB                   |
| Search            | 1   | 98.1 M   | 33         | 98.1                        | VR156               | DC V Meter(2) : more than 3.5V         |
| Sensitivity       | 2   | 98.1 M   | 32         | 98.1                        | VR156               | DC V Meter(2) : 0                      |
|                   | 3   | Repeat steps 1 and 2 until the adjustment standards are satisfied. |            |                             |                     |  |

**RBDS SL ADJUSTMENT**

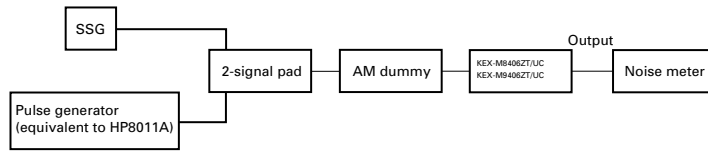
|  | No. | FM SSG         |            | Displayed<br>Frequency(MHz) | Adjustment<br>Point | Adjustment Method<br>(Switch Position) |
|--|-----|----------------|------------|-----------------------------|---------------------|--|
|  |     | Frequency(MHz) | Level(dBf) |                             |                     |  |
|  | 1   | 104.0 S2       | 35         | 104.0                       | VR202               | DC V Meter(3) : 1.75V±0.05V            |

**DOLBY B NR ADJUSTMENT**

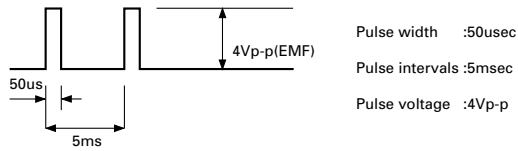
| No. | Test Tape                   | Adjustment Point      | Adjustment Method<br>(Switch Position)                       |
|-----|-----------------------------|-----------------------|--|
| 1   | NCT-150<br>(400Hz,200nwb/m) | VR301(Lch),VR302(Rch) | mV Meter(2) : -8.24dBm(300mV)±1dB<br>(DOLBY NR Switch : OFF) |

## AM NOISE CANCELER ADJUSTMENT

Connection:



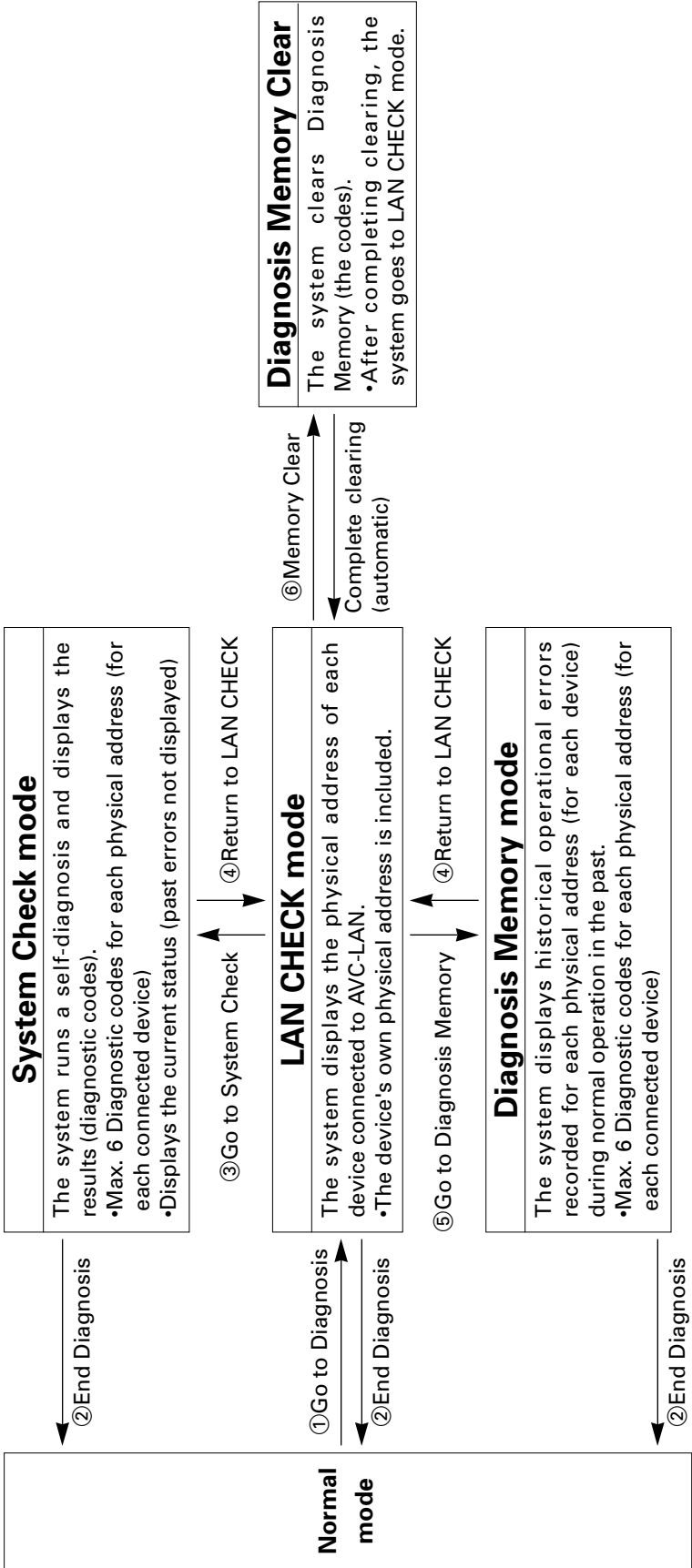
Setting of the pulse generator (setting of superimposed pulse)



Adjustment:

1. Setting of SSG
  - Receiving frequency : 1000 kHz
  - Percentage modulation : 30%
  - Modulation frequency : 400 Hz
  - Antenna input : 74 dBuV (EMF)
2. Set the system as shown in 1., then tune to a radio station.
3. Superimpose the pulse over signal to set modulation of SSG to OFF.
4. Use a noise meter to monitor output. Adjust VR201 to minimize the noise level.

● Flowchart and Functions



● Operation Specifications

|                          |  |
|--------------------------|--|
|                          | KEX-M8406ZT/UC ,M9406ZT/UC                                     |
| ① Go to Diagnosis        | Press the DISC key three times, while holding down CH1 or CH6. |
| ② End Diagnosis          | DISC key (Press and hold for 1.7 seconds.)<br>ACC OFF/ON       |
| ③ Go to System Check     | CH1  |
| ④ Return to LAN CHECK    | CH6  |
| ⑤ Go to Diagnosis Memory | CH2  |
| ⑥ Memory Clear           | CH5 (Press and hold for 1.7 seconds.)                          |
| •Page up                 | SEEK ~   |
| •Page down               | SEEK ~   |

# ● Physical Address Assignment

Display  
 1 — ①②③  
 Serial No. Physical address  
 Example: 2—190  
 II  
 The second device  
 connected is  
 an "audio H/U."

## ① Device groups

- 1 : Controllers
- 2 : Video output devices
- 3 : Audio output devices
- 4 : Audio processing devices
- 5 : Information output devices
- 6 : Vehicle devices

| ①       | 0                   | 1            | 2                    | 3                                    | 4                | 5       | 6     | 7                 | 8             | 9         | A         | B               | C               | D | E               | F       |
|---------|---------------------|--------------|----------------------|--------------------------------------|------------------|---------|-------|-------------------|---------------|-----------|-----------|-----------------|-----------------|---|-----------------|---------|
| 1       | M/DISP computer     |              |                      |                                      | AV machine       | 1DIN-TV | EMV   |                   | Audio ECU     | Audio H/U |           | Rear seat TV    | Rear control SW |   | CD-CH commander |         |
| 8       |                     |              |                      |                                      |                  |         |       | CD-ROM navigation |               |           |           | Display with SW |                 |   | MD-CH commander |         |
| 1-8 A-F |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| ②       | 0                   | 1            | 2                    | 3                                    | 4                | 5       | 6     | 7                 | 8             | 9         | A         | B               | C               | D | E               | F       |
| 2       | Navigation computer | ATIS         | FM multiple          | TV tuner                             | CD-CH with video |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 0       |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 1-F     |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| ③       | 0                   | 1            | 2                    | 3                                    | 4                | 5       | 6     | 7                 | 8             | 9         | A         | B               | C               | D | E               | F       |
| 3       | Radio               |              | Cassette             | Radio/cassette without CH controller | CD-P             |         | CD-CH |                   | MD-P          |           | MD-CH     |                 | DAT             |   | DCC             |         |
| 0       |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 | TEL ECU |
| 8       |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 1-7 9-F |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| ④       | 0                   | 1            | 2                    | 3                                    | 4                | 5       | 6     | 7                 | 8             | 9         | A         | B               | C               | D | E               | F       |
| 4       | Equalizer           |              |                      |                                      | DSP              |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 0       |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 1-F     |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| ⑤       | 0                   | 1            | 2                    | 3                                    | 4                | 5       | 6     | 7                 | 8             | 9         | A         | B               | C               | D | E               | F       |
| 5       | GPS receiver        | ATIS decoder | FM multiplex decoder |                                      | CD-CH            |         | MD-CH |                   | CD-ROM-CH     |           | MD-ROM-CH |                 |                 |   |                 |         |
| 0       |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 1-F     |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| ⑥       | 0                   | 1            | 2                    | 3                                    | 4                | 5       | 6     | 7                 | 8             | 9         | A         | B               | C               | D | E               | F       |
| 6       | A/C computer        |              |                      |                                      |                  |         |       |                   | Body computer |           |           |                 |                 |   |                 |         |
| 0       |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |
| 1-F     |                     |              |                      |                                      |                  |         |       |                   |               |           |           |                 |                 |   |                 |         |

● Assignment of Diagnostic Codes

Display

1 — ①②

Serial No. Diagnostic code

Example: 3—D2

II

The third content of Diagnosis is "No response to periodical communications."

NOTES:

\*1 Instruction to check for an error in periodical communications is interrupted.

● Items corresponding each model

<During Diagnosis Memory mode>

• KEX-M8406ZT/UC,M9406ZT/UC  
D1, D2, FF, 50

<During System Check mode>

• KEX-M8406ZT/UC,M9406ZT/UC

No Diagnostic code assigned 00

|     | ①      | 0          | 1                    | 2 | 3 | 4              | 5                                   | 6                                    | 7                               | 8               | 9         | A                      | B               | C | D  | E                        | F |
|-----|--------|------------|----------------------|---|---|----------------|-------------------------------------|--------------------------------------|---------------------------------|-----------------|-----------|------------------------|-----------------|---|--|--------------------------|---|
| 0   | NO ERR | +B error   | Microprocessor error |   |   |                | Cassette deck error                 | CD deck or CD-CH error               | MD deck or MD-CH error          | Amplifier error | EQ error  | Switch error           | AUDIO ECU error |   | No response to communications            |                          |   |
| 1   |        | ACC error  | ROM error            |   |   | AM tuner error | Cassette deck EJT failure           | CD, CH EJT failure                   | MD, CH ←                        |                 |           |                        |                 |   | Communications failure                   |                          |   |
| 2   |        | MUTE error | RAM error            |   |   | FM tuner error | Tape entangled in the cassette deck | Dirt, scar and upside-down in CD, CH | MD, CH ←                        |                 |           |                        |                 |   | No response to periodical communications |                          |   |
| 3   |        |            |                      |   |   |                | Dirt in cassette deck head          | Detected PU temperature in CD, CH    | MD, CH ←                        |                 |           |                        |                 |   |  |                          |   |
| 4   |        |            |                      |   |   |                | Broken cassette deck belt           | Detected overcurrent in CD, CH       | MD, CH ←                        |                 |           |                        |                 |   | *1                                       |                          |   |
| 5   |        |            |                      |   |   | TV tuner error |                                     |                                      | MD, CH recording function error |                 |           |                        |                 |   |  |                          |   |
| 6   |        |            |                      |   |   |                |                                     |                                      |                                 |                 |           |                        |                 |   |  |                          |   |
| 7   |        |            |                      |   |   |                |                                     | CH tray error                        |                                 |                 |           |                        |                 |   |  |                          |   |
| 8   |        |            |                      |   |   |                |                                     | CH elevator error                    | CH ←                            | DSP error       | LCD error | Antenna error          |                 |   |  |                          |   |
| 9   |        |            |                      |   |   |                |                                     | CD, CH clamp error                   | MD, CH ←                        |                 |           | Main antenna error     |                 |   |  |                          |   |
| A   |        |            |                      |   |   |                |                                     |                                      |                                 |                 |           | Sub antenna error      |                 |   |  |                          |   |
| B   |        |            |                      |   |   |                |                                     |                                      |                                 |                 |           | TV antenna error       |                 |   |  |                          |   |
| C   |        |            |                      |   |   |                |                                     |                                      |                                 |                 |           | Antenna selector error |                 |   |  |                          |   |
| D/E |        |            |                      |   |   |                |                                     |                                      |                                 |                 |           |                        |                 |   |  |                          |   |
| F   |        |            |                      |   |   |                |                                     |                                      |                                 |                 |           |                        |                 |   |  | No response to Diagnosis |   |

Common Diagnostic code among devices

Diagnostic code specific to a particular device

Diagnostic code for communications

# ● Go to Diagnosis (Beep and Display)

|         | LAN-CHECK mode  | System Check mode   | Diagnosis Memory mode   |
|---------|---|---|---|
| Beep    | <ul style="list-style-type: none"> <li>The system beeps three times when starting up Diagnosis.</li> </ul>  | <ul style="list-style-type: none"> <li>The system beeps three times when changing to another mode.</li> <li>The system beeps once every time a physical address is displayed.</li> </ul>  | <ul style="list-style-type: none"> <li>The system beeps three times when changing to another mode.</li> <li>The system beeps once every time a physical address is displayed.</li> </ul>  |
| Display | <ul style="list-style-type: none"> <li>The system displays the physical address of each device connected to AVC-LAN in sequence from the lowest address.<br/>Example: 1 — 1E0<br/>Serial No. Physical address (CD commander)</li> </ul> | <ul style="list-style-type: none"> <li>When changing to another mode<br/>Blinking "SYS" is displayed.</li> <li>After completing System Check<br/>Displays a physical address.<br/>• Identifies the device.<br/>Example: H 150<br/>Physical address (1DIN-TV)<br/>Distinguishes from LAN-CHECK.</li> <li>Displays a Diagnostic code.<br/>• Identifies the type of error.<br/>Example: 1 — d2<br/>Serial No. Diagnostic code<br/>(no response to periodical communications)<br/>Max. 6 for each physical address</li> <li>Displays an auxiliary code<br/>• Identifies the device involved in the error.<br/>Example: 1 — 360<br/>Serial No. Physical address (CD-CH)<br/>1DIN-TV has recorded an error indicating there is no response to periodical communications in CD-CH.<br/>1 —<br/>When there is no physical address:</li> </ul> | <ul style="list-style-type: none"> <li>When changing to another mode<br/>Blinking "CODE" is displayed.</li> <li>Then, "Latest periodical communications number" is displayed.<br/>• Elapsed time at the current point is displayed.<br/>Example: 1F<br/>Elapsed time (31 minutes)</li> <li>The system displays a number from 00 to FF (increases a digit every minute).</li> <li>When 256 minutes are reached, the system returns to 00.</li> <li>Displays the details of Diagnosis.<br/>Displays a physical address.<br/>(Same as the left.)<br/>Displays a periodical communications number.<br/>• Displays the time when the error occurred.<br/>Example: 1 — 02<br/>Serial No. Elapsed time (2 minutes)<br/>Displays Diagnostic code. (Same as the left.)<br/>Displays an auxiliary code. (Same as the left.)<br/>Displays a physical address.</li> <li>When there is no Diagnostic data:<br/>00</li> </ul> |

## 7.1.2 DISASSEMBLY

### ● Removing the Case (not shown)

1. Remove the six screws.
2. Remove the case.

### ● Removing the Grille Assy (Fig.1)

- ➡ 1 Remove the two screws and then remove the Grille Assy.

### ● Removing the Holder (Fig.1)

- ➡ 2 Remove the four screws and then remove the Holder.

### ● Removing the Cassette Mechanism Module (not shown)

1. Remove the four screws.
2. Remove the Cassette Mechanism Module.

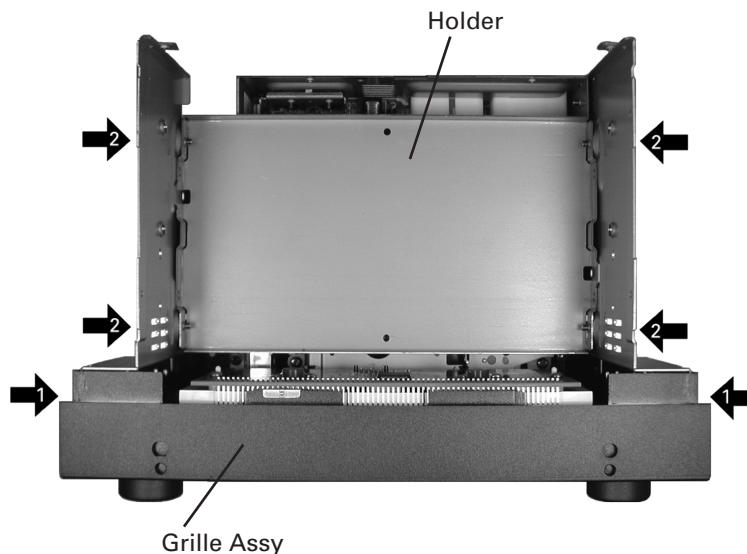


Fig.1

### ● Removing the Main Unit (Fig.2)

- ➡ 1 Remove the two screws.
- ➡ 2 Straight the tabs at two locations indicated.
- ➡ 3 Remove the two screws and then remove the Main Unit.

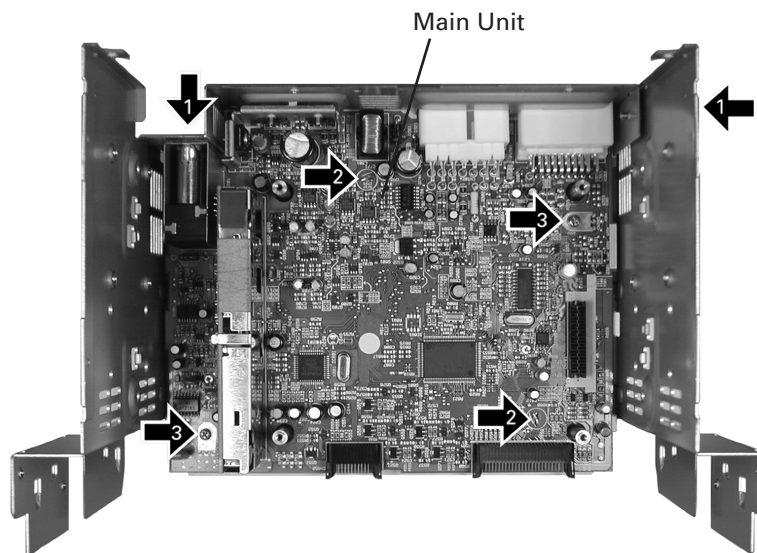
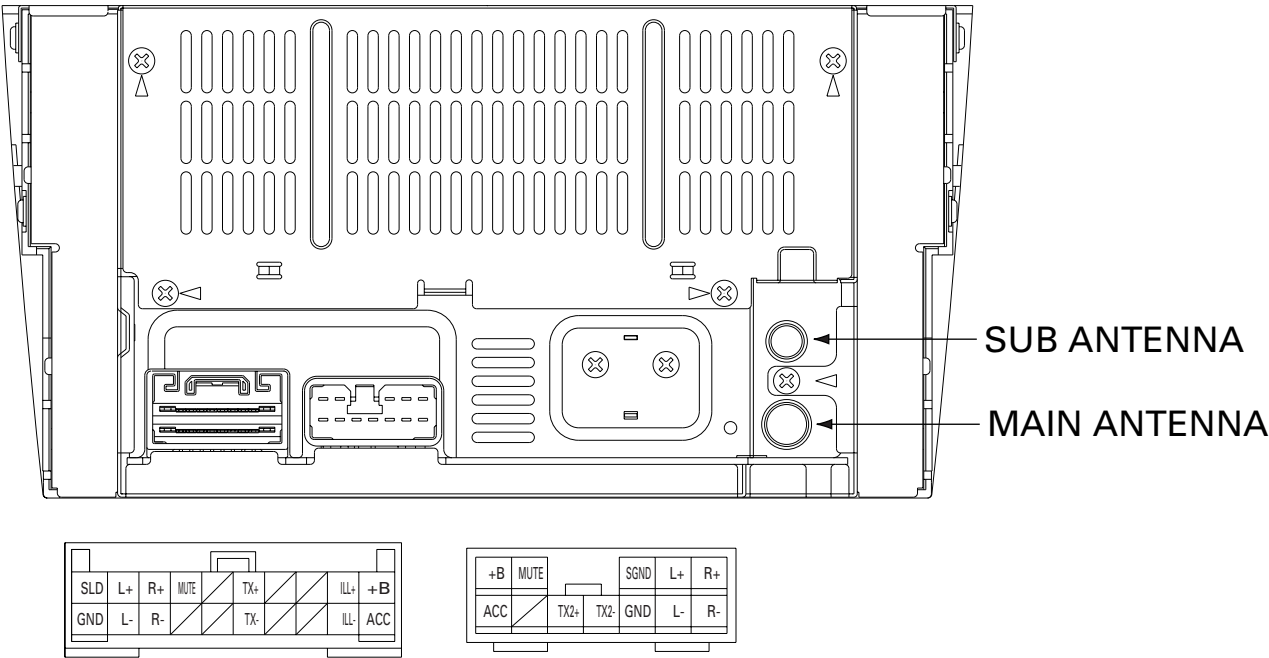
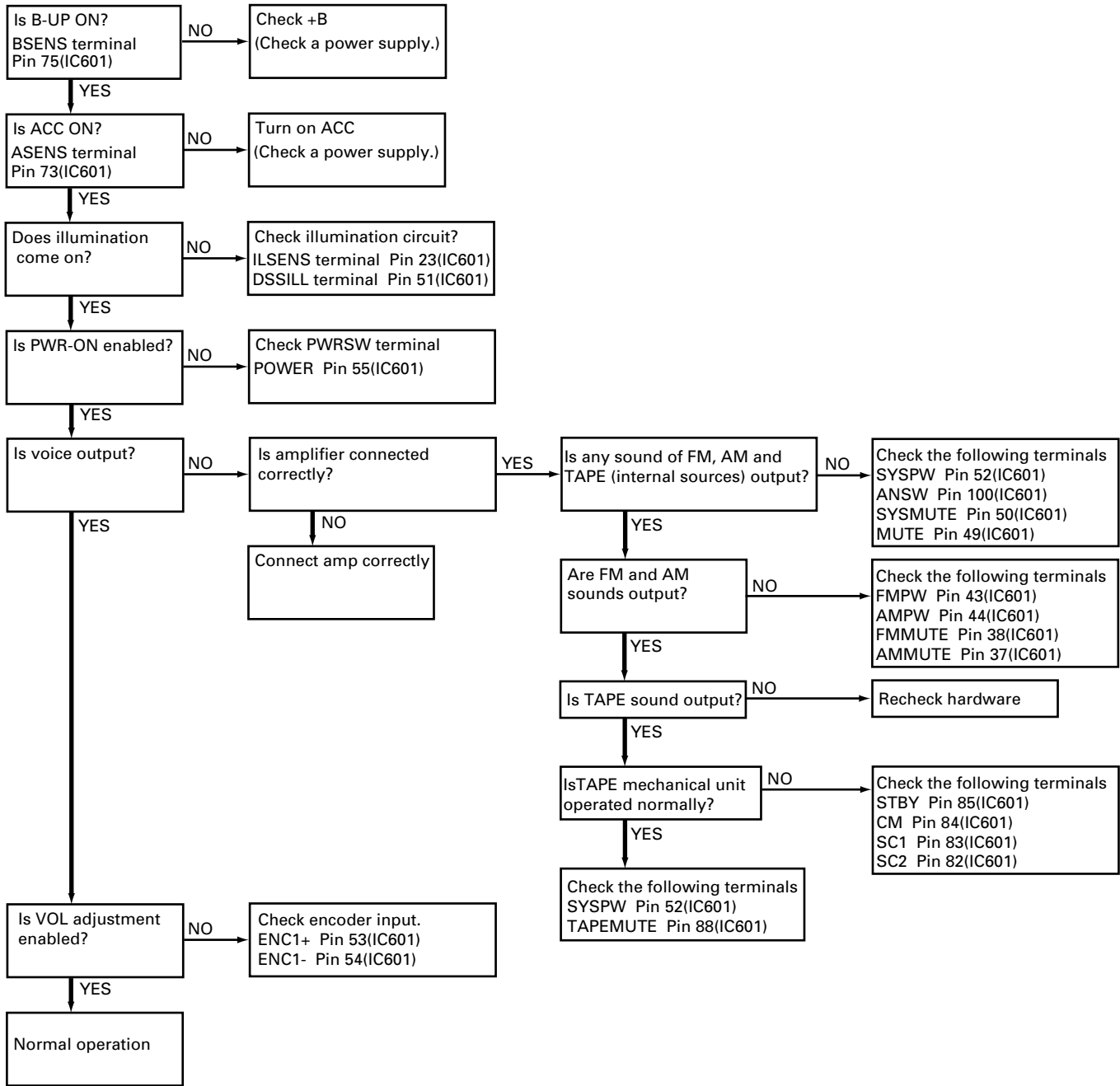


Fig.2

7.1.3 CONNECTOR FUNCTION DESCRIPTION



## 7.1.4 TROUBLESHOOTING



## 7.2 PARTS

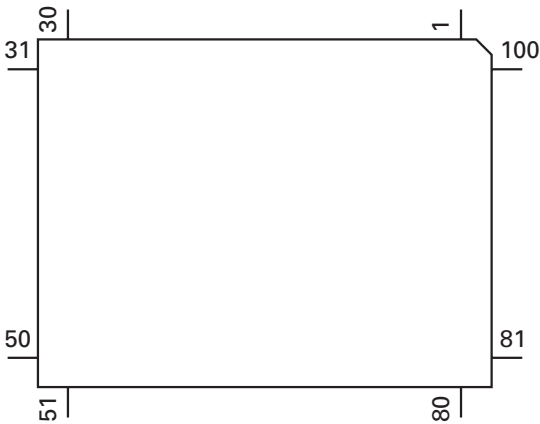
### 7.2.1 IC

#### ● Pin Functions (PD5579A)

| Pin No. | Pin Name | I/O | Function and Operation                |
|---------|----------|-----|---------------------------------------|
| 1       | MUTESENS |     | Not used                              |
| 2       | LINH     | O   | Inhibit output for LCD driver         |
| 3       | LCE      | O   | Chip enable output pin for LCD driver |
| 4       | ILL      |     | Not used                              |
| 5       | LDO      | O   | LCD driver data output                |
| 6       | NC       |     | Not used                              |
| 7       | LCK      | O   | Clock output for LCD driver           |
| 8       | BYTE     |     | Connect to GND                        |
| 9       | CNVSS    |     | Connect to GND                        |
| 10      | XCIN     |     | Not used                              |
| 11      | XCOU     |     | Not used                              |
| 12      | RESET    | I   | Reset input                           |
| 13      | XOUT     | O   | X'tal terminal                        |
| 14      | VSS      |     | GND                                   |
| 15      | XIN      | I   | X'tal terminal                        |
| 16      | VDD      |     | Power supply                          |
| 17      | NMI      |     | Connect to VDD                        |
| 18      | RCK      | I   | RDS clock input                       |
| 19      | LDET     | I   | PLL lock sense input                  |
| 20      | NC       |     | Not used                              |
| 21      | RX2      | I   | BUS data input                        |
| 22      | IPPW     | O   | BUS driver power supply output        |
| 23      | ILSENS   | I   | Illumination sense input              |
| 24      | DRST     | O   | Reset output                          |
| 25      | 57K      | I   | 57kHzBP-OUT sense input               |
| 26      | CURRO    | O   | Current request                       |
| 27      | SK       | I   | SK signal input                       |
| 28      | RDSLK    | I   | RDS LK signal input                   |
| 29      | RX1      | I   | BUS data input                        |
| 30      | TX       | O   | BUS data output                       |
| 31      | PDO      | O   | Data output for PLL IC                |
| 32      | PDI      | I   | Data input from PLL IC                |
| 33      | PCK      | O   | PLL clock output                      |
| 34      | PCE      | O   | Chip enable output for PLL IC         |
| 35      | ECE      |     | Not used                              |
| 36      | RDSMUTE  | O   | RDS mute                              |
| 37      | AMMUTE   | O   | AM mute output                        |
| 38      | FMMUTE   | O   | FM mute output                        |
| 39      | BLPW     | O   | Back Light ON/OFF                     |
| 40      | MODSENS  | I   | Modulation sense                      |
| 41      | EPM      |     | Not used                              |
| 42      | RDT      | I   | RDS demodulation data input           |
| 43      | FMPW     | O   | FM power output                       |
| 44      | AMPW     | O   | AM power output                       |
| 45      | SWVDD    | O   | Grille power supply control output    |
| 46      | CE       |     | Not used                              |
| 47      | ANTB     | O   | Antenna control B                     |
| 48      | ANTA     | O   | Antenna control A                     |
| 49      | MUTE     | O   | BUS mute output                       |
| 50      | SYSMUT   | O   | System mute                           |
| 51      | DSSILL   | O   | DSS illumination output               |
| 52      | SYSPW    | O   | System power control output           |
| 53      | ENC1+    | I   | VOL encoder (+) input                 |
| 54      | ENC1-    | I   | VOL encoder (-) input                 |
| 55      | POWER    | I   | POWER key input                       |
| 56-61   | KST5-0   | O   | Key strobe output                     |

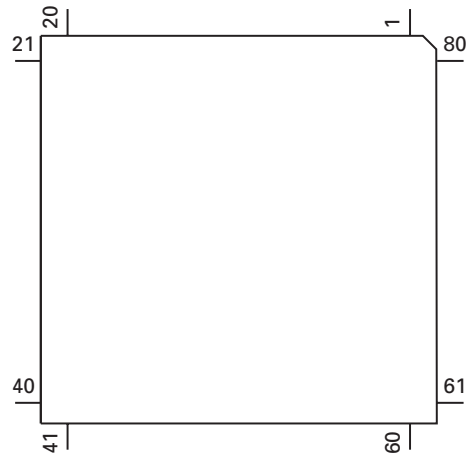
| Pin No. | Pin Name | I/O | Function and Operation                          |
|---------|----------|-----|---|
| 62      | VCC      |     | Power supply                                    |
| 63      | NC       |     | Not used  |
| 64      | VSS      |     | Connect to GND                                  |
| 65-68   | KD3-0    | I   | Key data input                                  |
| 69      | MS       | I   | Cassette mechanism MS sense input               |
| 70      | FR       | O   | Head forward/reverse select output              |
| 71      | PLAY     | O   | MS gain select output                           |
| 72      | MTL      | I   | Cassette mechanism tape detect input            |
| 73      | ASENS    | I   | ACC power sense input                           |
| 74      | CSEJ     | I   | Cassette eject sense input                      |
| 75      | BSENS    | I   | Back up power sense input                       |
| 76      | NR       | O   | Dolby NR ON/OFF select output                   |
| 77      | CSLOAD   | I   | Tape loading detect input                       |
| 78      | POS      | I   | Position sense                                  |
| 79      | RES      | I   | Cassette mechanism reverse end sense input      |
| 80      | NES      | I   | Cassette mechanism forward end sense input      |
| 81      | TEST     | I   | Test terminal                                   |
| 82      | SC2      | O   | Cassette mechanism sub motor control output     |
| 83      | SC1      | O   | Cassette mechanism sub motor control output     |
| 84      | CM       | O   | Cassette mechanism capstan motor control output |
| 85      | STBY     | I   | Stand-by input terminal                         |
| 86      | ENC2-    | I   | AUD encoder (-) input                           |
| 87      | ENC2+    | I   | AUD encoder (+) input                           |
| 88      | TAPEMUTE | O   | TAPE mute output                                |
| 89      | ST       | I   | Stereo  |
| 90      | FMSD     | I   | FM SD input                                     |
| 91      | NL       |     | RDS noise level                                 |
| 92      | CL       | I   | RDS tune off sense input                        |
| 93      | RDSL     |     | RDS signal level                                |
| 94      | ILL-     |     | Not used  |
| 95      | SL       | I   | Signal level input                              |
| 96      | AVSS     |     | Connect to GND                                  |
| 97      | NC       |     | Not used  |
| 98      | VREF     |     | Connect to VDD                                  |
| 99      | AVCC     |     | Connect to VDD                                  |
| 100     | ANSW     | O   | Analog SW                                       |

\*PD5579A



IC's marked by\* are MOS type.  
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

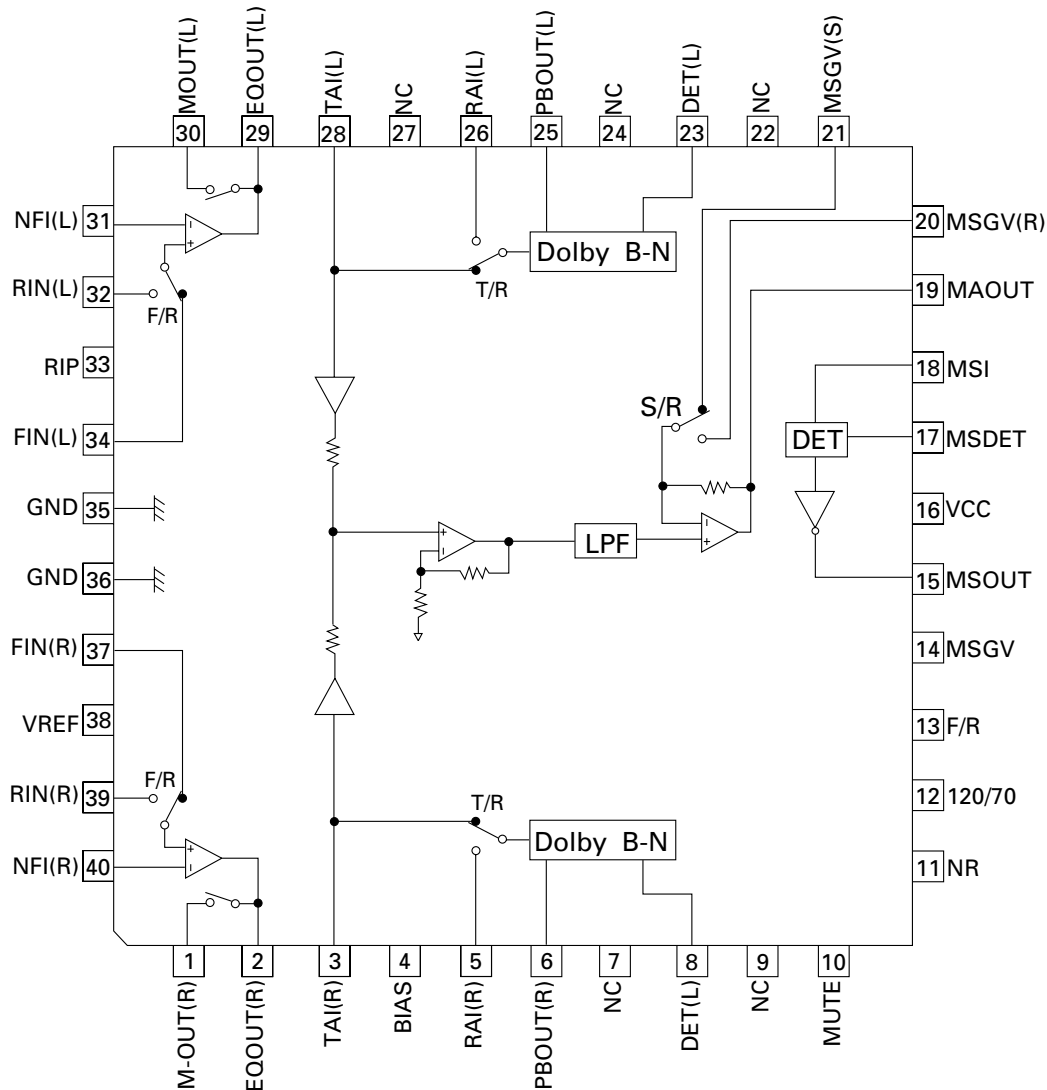
LC75874W



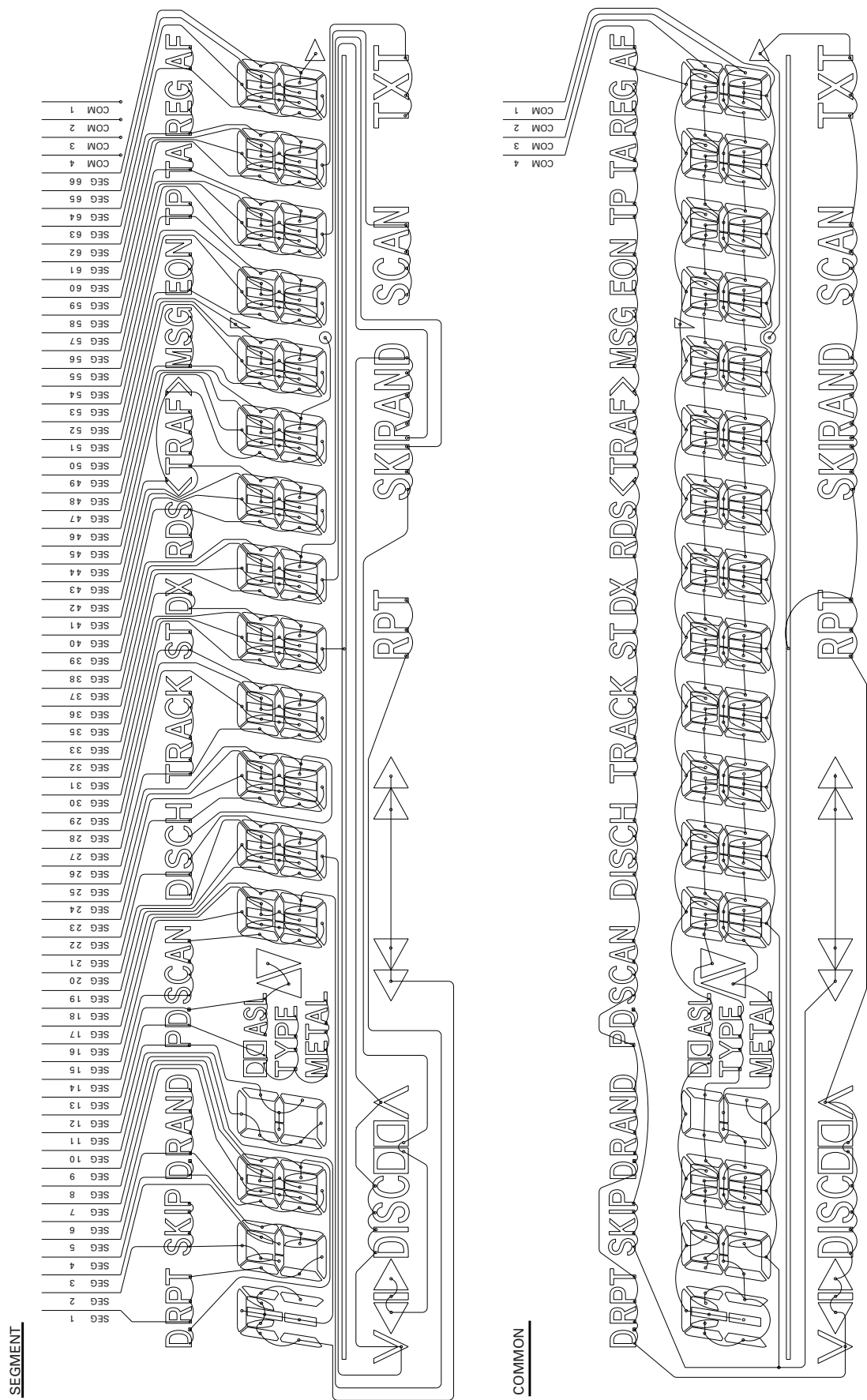
### ● Pin Functions (LC75874W)

| Pin No. | Pin Name | I/O | Function and Operation                |
|---------|----------|-----|---------------------------------------|
| 1-64    | SE3-66   | O   | LCD segment signal output             |
| 65-68   | CO1-CO4  | O   | LCD common signal output              |
| 69      | VDD      |     | Power supply                          |
| 70      | VLCD     |     | LCD Power supply                      |
| 71      | VLCD1    |     | LCD bias power supply                 |
| 72      | VLCD2    |     | LCD bias power supply                 |
| 73      | VSS      |     | GND                                   |
| 74      | OSC      | I/O |                                       |
| 75      | LINH     | I   | Inhibit input from IC901              |
| 76      | CE       | I   | Chip enable output pin for LCD driver |
| 77      | CL       | I   | Clock output for LCD driver           |
| 78      | DI       | I   | Data output for LCD driver            |
| 79,80   | SE1,SE2  | O   | LCD segment signal                    |

HA12216F



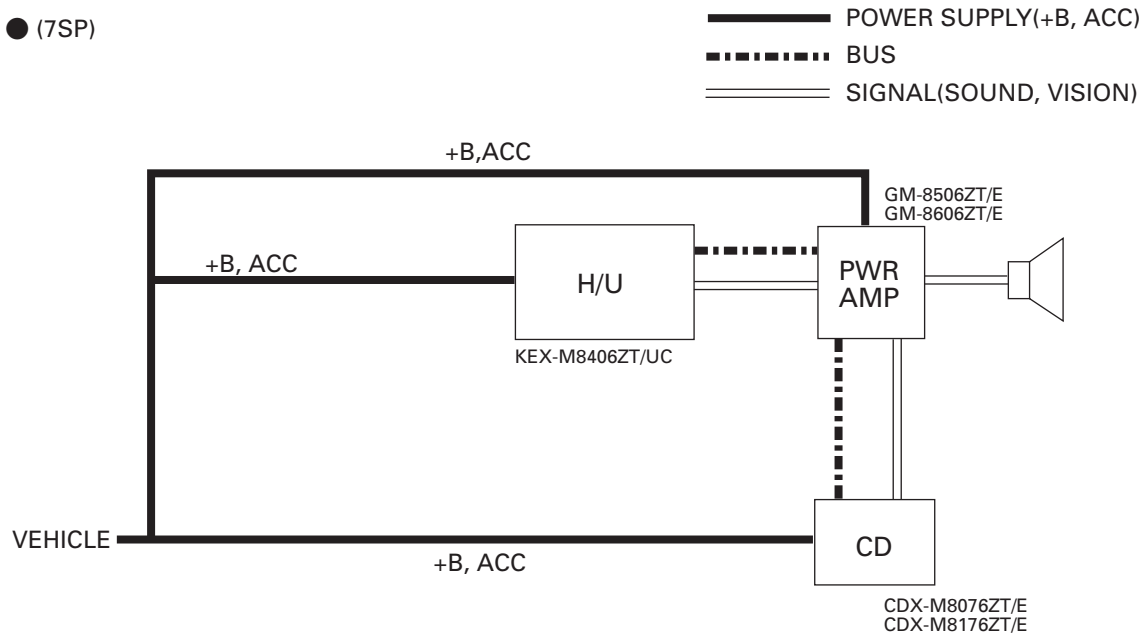
7.2.2 DISPLAY



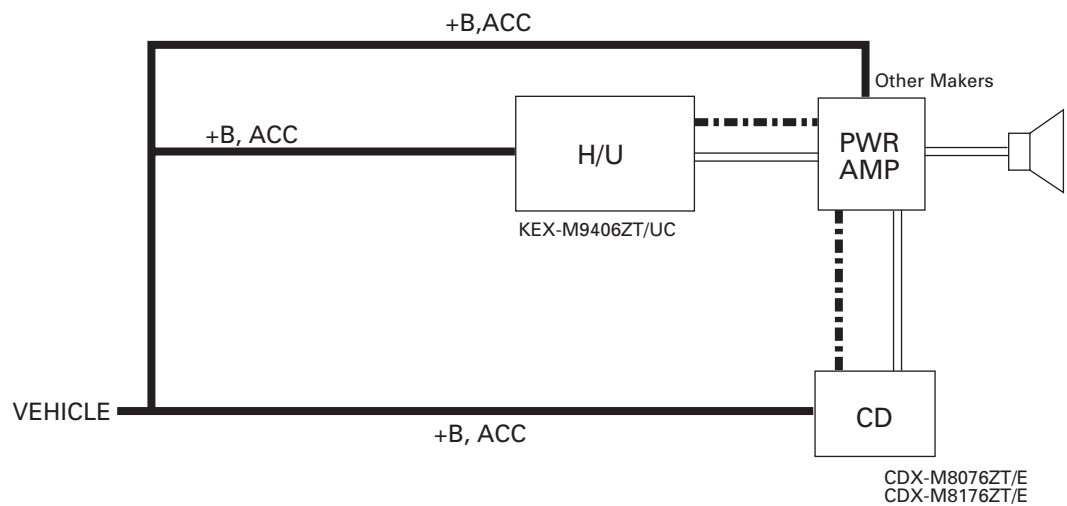
## 7.3 EXPLANATION

### 7.3.1 SYSTEM BLOCK DIAGRAM

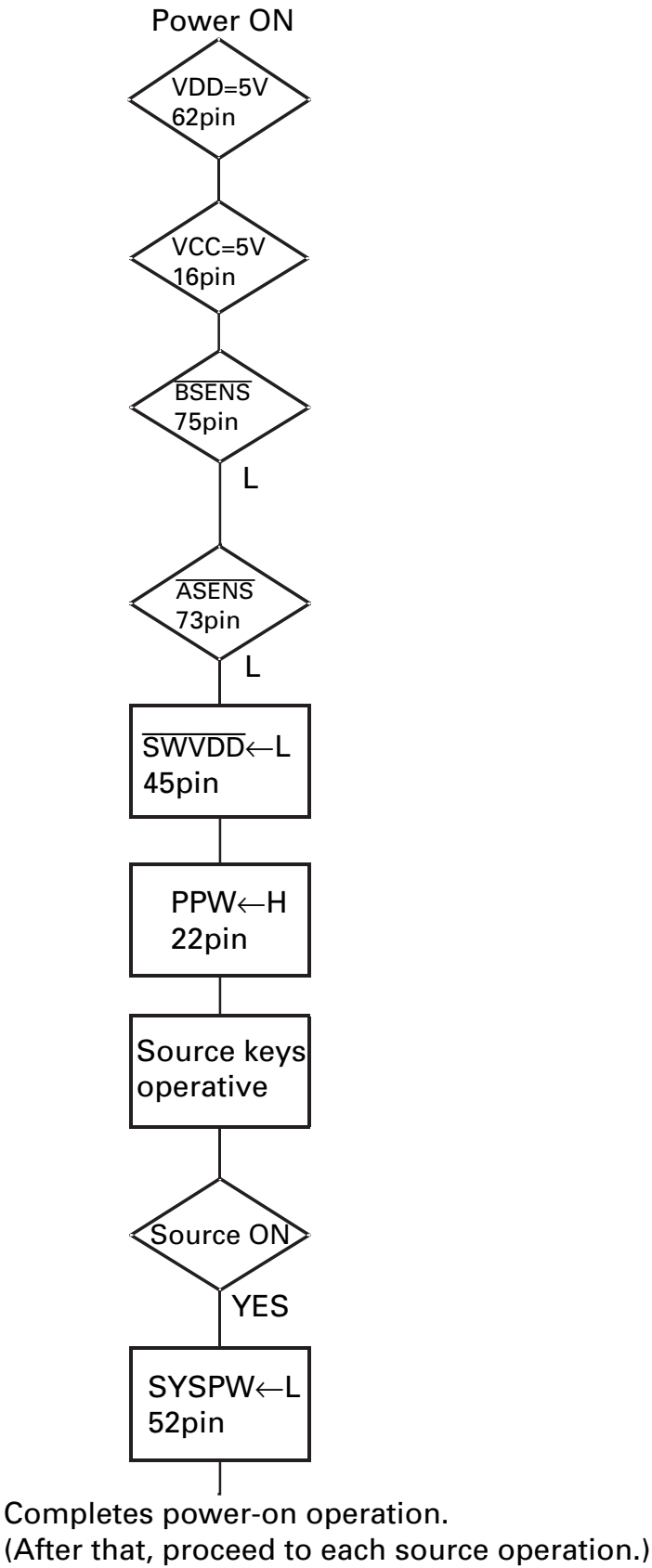
● (7SP)



● (8SP)



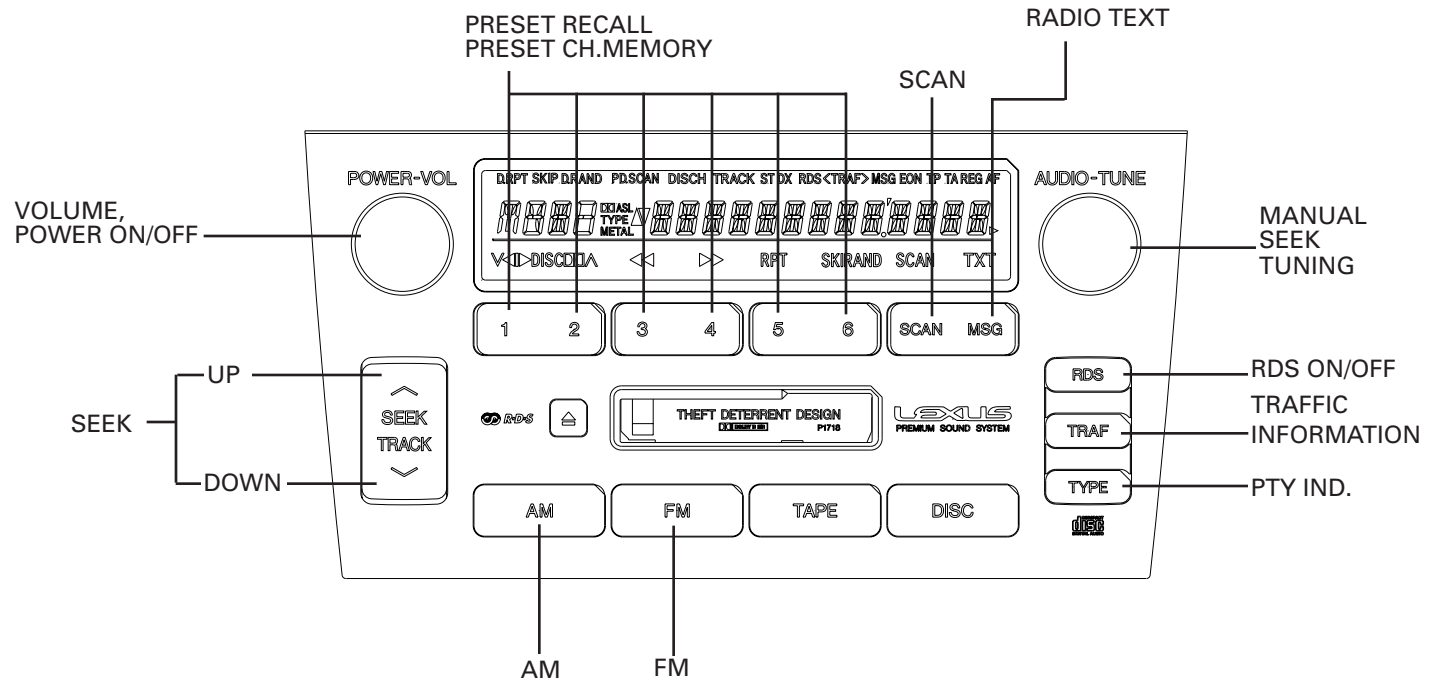
7.3.2 OPERATIONAL FLOW CHART



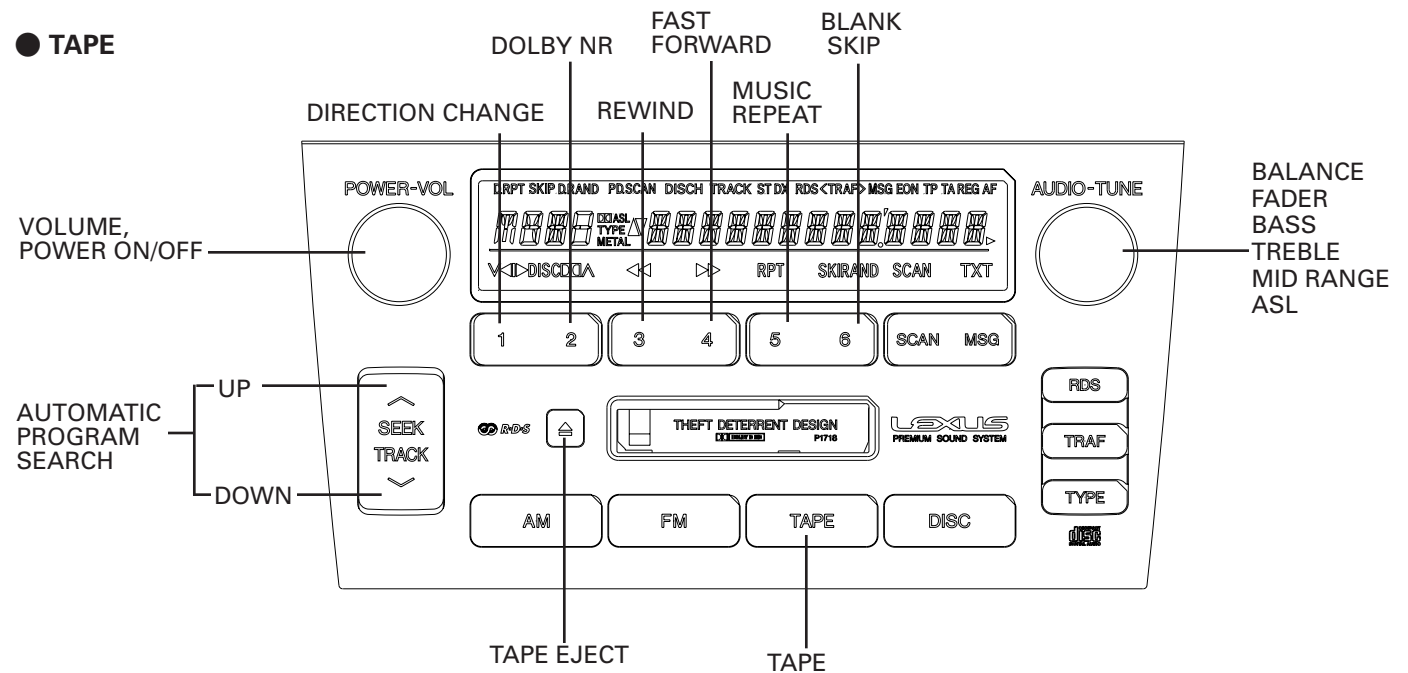
## 8. OPERATIONS AND SPECIFICATIONS

### 8.1 OPERATIONS

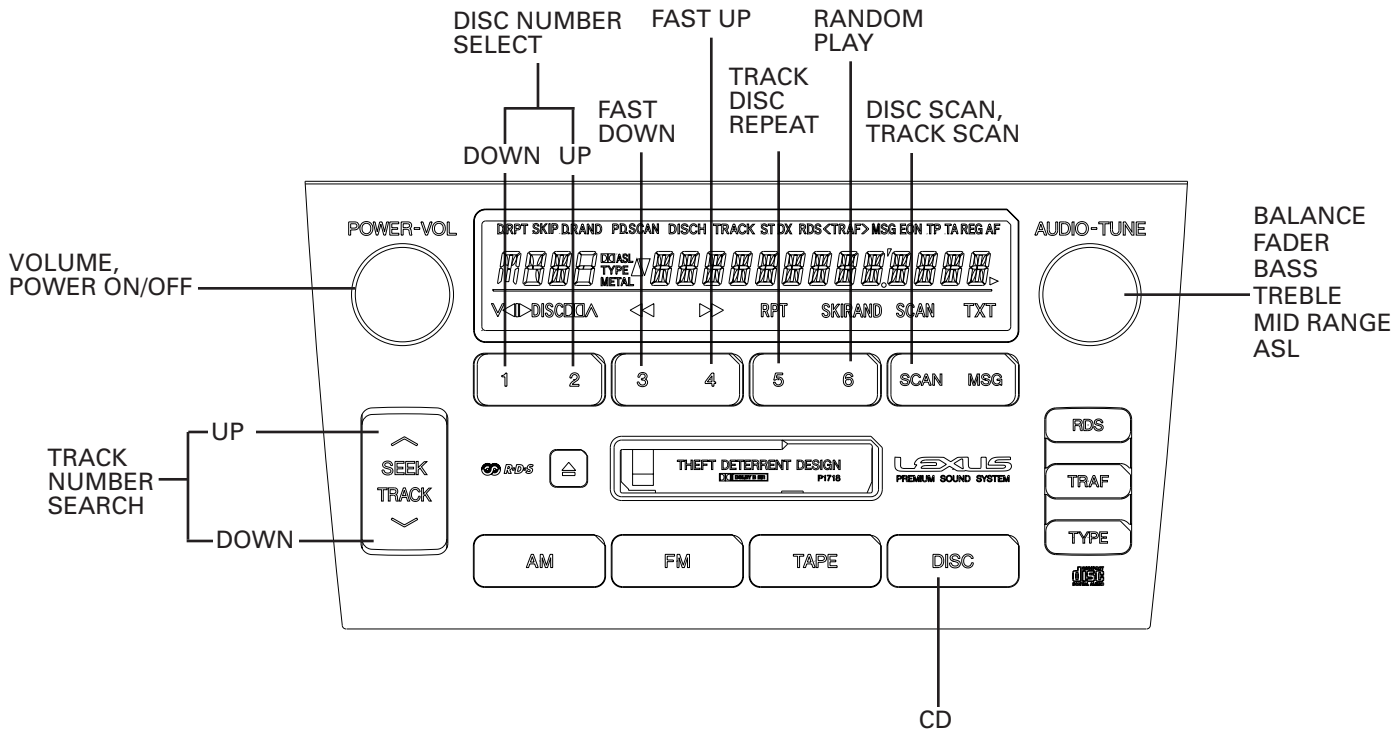
#### ● RADIO



#### ● TAPE



● CD



8.2 SPECIFICATIONS

**General**  
Power source..... 13.2 V(10.5V—16.0V allowable)  
Electrode dark current ..... less than 1 mA  
Grounding system..... Negative type  
Weight ..... 1.64 kg

**Tape player**  
Tape ..... Compact cassette tape (C-30—C-90)  
Tape speed ..... 4.76 cm/sec.(+0.14 cm/sec.,-0.05 cm/sec.)  
Wow & flutter ..... less than 0.2 % (WRMS)  
Fast forward/rewind time ..... less than 120 sec. for C-60  
Stereo separation ..... more than 30 dB  
Signal-to-noise ratio ..... more than 40 dB

**FM tuner**  
Frequency range..... 87.7 — 107.9 MHz  
Usable sensitivity ..... 7 dBμ ± 6dB (S/N: 30 dB)  
Signal-to-noise ratio..... more than 48 dB(stereo)  
Distortion ..... less than 1.5%  
Stereo separation ..... more than 25 dB (35 ±10dB, 1 kHz)

**AM tuner**  
Frequency range ..... 530 — 1,710 kHz  
Usable sensitivity ..... 28 dBμ ± 5dB (S/N: 20 dB)  
Selectivity..... more than 50 dB (±10 kHz)  
Signal-to-noise ratio..... more than 44 dB(74dBμ)  
Distortion..... less than 1.0% (74dBμ)